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The



# CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2913  
VOL. CXXIII

DECEMBER 7, 1935

Annual Subscription (with  
Diary) 20/-. Single Copies 9d.

## Macfarlan Products

*..synonymous with dependability*

MORPHINE, CODEINE,  
APOMORPHINE, DIAMORPHINE,  
ETHYL MORPHINE, AND  
PAPAVERINE, ETC.

ATROPINE, EMETINE,  
ESERINE, HYDRASTINE,  
STRYCHNINE, PILOCARPINE

JALAP, PODOPHYLLIN AND  
SCAMMONY RESINS

ALOIN, CHRYSAROBIN, SALICIN  
EUONYMIN, IRIDIN  
LEPTANDRIN  
PULV. IPECAC. CO.

OPIUM, RAW AND POWDER



## J. F. MACFARLAN & Co

Established 1780

109 Abbeyhill, Edinburgh, 32 Bethnal Green Rd., London, E.1 Works: Abbeyhill &amp; Northfield, Edinburgh

Index to Advertisers, pp. 5 &amp; 6.



# STABILITY

For constant superior quality and the dependability of strength Parke-Davis Hydrogen Peroxide stands alone. It is a good line to buy on the special terms offered, and it will always bring the discriminating customer back for more. Continuous propaganda amongst dental practitioners secures steady sales.



SEND FOR TERMS

PARKE, DAVIS & CO., 50, BEAK STREET, LONDON. W.1



*A Biological Remedy: In Tablet Form*  
**for Veins, Arteries and Heart**

for

- VARICOSE VEINS
- VARICOSE ULCERS
- ECZEMA, PILES
- HEART TROUBLES  
HIGH BLOOD  
PRESSURE, Etc.



**1/3**  
 Profit  
 on every  
 Sale

**ELASTO**

**A LIVELY DEMAND EVERYWHERE FOSTERED  
 BY CONSISTENT ADVERTISING**

**STILL MORE EXTENSIVE  
 ADVERTISING NOW  
 BEING PLANNED**

Obtainable through your Wholesale  
 House. Further particulars, show-  
 cards, &c., from the proprietors.

Day by day—year by year—people throughout the country see Elasto advertising. Every week shows bigger sales. Thousands of chemists, realising that Elasto is a non-competitive line are recommending this highly successful product to all customers suffering from Varicose Veins, Bad Leg and all circulatory disorders, and doing a brisk repeat business. Our large scale advertising will move your stock with greater speed if you will show Elasto on your counter or in your window. Take your share of this better class trade now!


**SHOW ELASTO — IT SELLS ON SIGHT!**

RETAIL 5/- PER BOX  
 (One Month's Supply)

WHOLESALE 45/- A DOZ. P.A.T.A.

**THE NEW ERA TREATMENT Co. Ltd.,**  
 (DEPT. C.D.), CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1





**“It's a very funny thing.”**

It's a funny thing but when one desires to write an advertisement about his own goods or service he must speak very modestly about them. If he doesn't, the general tendency is to disbelieve his statements. So any attempt to write with honest pride or enthusiasm is misconstrued as an exaggerated claim and classed as a lot of “eye wash.” And in these days of such ridiculous and high-faluting claims in advertising, I'm afraid that in many cases it is only too true.

Far too many advertisers with their “stunt” methods are actually destroying the very thing they are anxious to build up, and that is, the trust and confidence of the buyer. Look how many of them through their advertisements are almost going on their bended knees and saying “Please will you buy.” It's alright, of course, so long as they have plenty of money to throw about, but advertising has to do more than sell goods. If it is done efficiently it will sell those goods economically and help to create confidence in them.

However, the world of business appears to be settling down and acknowledging a duty and a square deal to both buyer and seller, which is more successful than bellowing a lot of “bally-hoo” into the ears of the buyer.

Having tried out these sensible and sincere methods of doing business along with many other well-known business houses, we know which is the most profitable. There are so many products and services that are worthy of a certain amount of enthusiastic expression, and I want to say quite frankly that ours is one of them.

I make no bones about that statement because I am consoled with the fact that you yourself can readily *prove* its truth and sincerity. It is not my intention, however, to say a lot of wonderful things about our work, because there are no supermen at our place, neither are we the best printers in the land. But an ever-increasing number of business men keep on telling us how much they appreciate our helpfulness, and that we are producing some jolly good printing for them.

***Waide's the Printers***

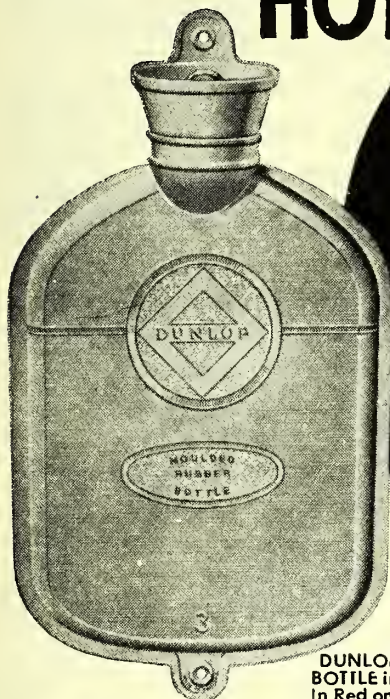
**THOMAS WAIDE & SONS LTD., PRINTERS & LITHOGRAPHERS, KIRKSTALL HILL, LEEDS 5**



# HOT WATER BOTTLES

*that will increase  
your sales—*

## DUNLOP



DUNLOP All-Rubber MOULDED BOTTLE in Cellophane wrapping. In Red only (on left). Fixed Retail Selling Price **2/11**



A seamless moulded bottle having a specially constructed fabric insertion



High Pressure Moulded with Fabric Insertion

The DUNLOP Fabric Insertion Bottle (in White or Red) is built on the same principle as the world's toughest motor tyres. Definitely the strongest and most reliable hot water bottle in the world.

Fixed Retail Selling Price

**3/11**

*Made under British Patents*

### RED RIDING HOOD BOTTLE

*Made under British Patents*

Rogd. design No. 781,840. Fixed Retail Selling Price **4/6** including red head cover.

### ANIMAL SERIES

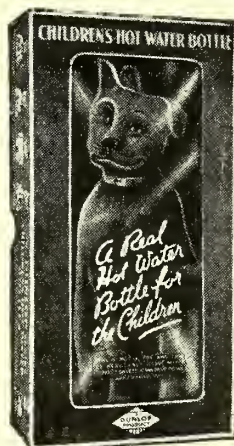
*Made under British Patents*

These can be sold to practically every family in addition to their usual hot water bottles. Fixed prices to the Public—KITTY, BUNNY, TEDDY, **3/11** DOGGIE, uncovered, each

Covered in coloured velvet, each **5/9**

COLOURS: PLAIN RUBBER, Black and White Grained or Medium Brown. VELVET COVERS, Orange, Red or Blue.

The Animal Series is now packed in a new and distinctive box having a cellophane inset in the lid which ensures that the contents remain unsold yet at the same time allows them to be clearly seen.



Registered Design No. 766 048

This year the prices of the Dunlop Hot Water Bottle range have all been adjusted to give the dealer a clear 33 $\frac{1}{3}$ % profit margin.

Take advantage of these generous terms and stock up with the world-famous Dunlop range.

**Obtainable from all Factors**

DUNLOP RUBBER COMPANY LTD. (General Rubber Goods Division), Cambridge Street, Manchester.



C.F.H.



# FOR BIG BUSINESS

# BEECHAM PRODUCTS



BEECHAM PRODUCTS have attained their present popularity through MERIT. Every Chemist and Druggist should participate in the ever increasing demand for BEECHAMS Brand PILLS, BEECHAMS Brand POWDERS and BEECHAMS Brand LUNG SYRUP. They amply repay any selling co-operation extended to them.

BEECHAM PRODUCTS never become dead stock—there are no losses on them—all damaged stock is replaced free—they are protected under P.A.T.A. regulations—yield good profits and are the best paying propositions to handle.

**STOCK MORE—  
SHOW MORE—  
SELL MORE—  
BEECHAM  
PRODUCTS**

SHOW MATERIAL  
SENT ON  
REQUEST

## BEECHAMS PILLS LTD.

### ST. HELENS, LANCs.



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QUALITY



PRODUCTS

## GALLSTONES

Any sufferers from this distressing malady will appreciate your recommendation of

TAB. CHELIDON CO.

(H. H. &amp; CO.)

a well-tried remedy for dissolving Gallstones.

This reliable Cholagogue and urinary antiseptic is an admirable preparation affording endless opportunity to enterprising chemists.

PRICE IN BULK : 32/- per 1,000 net.

Samples and literature on request

HOUGH, HOSEASON &amp; Co. LTD.

MANUFACTURING CHEMISTS

Bridge Street, MANCHESTER

'Phone: BLAckfriars 3895/6, 7435

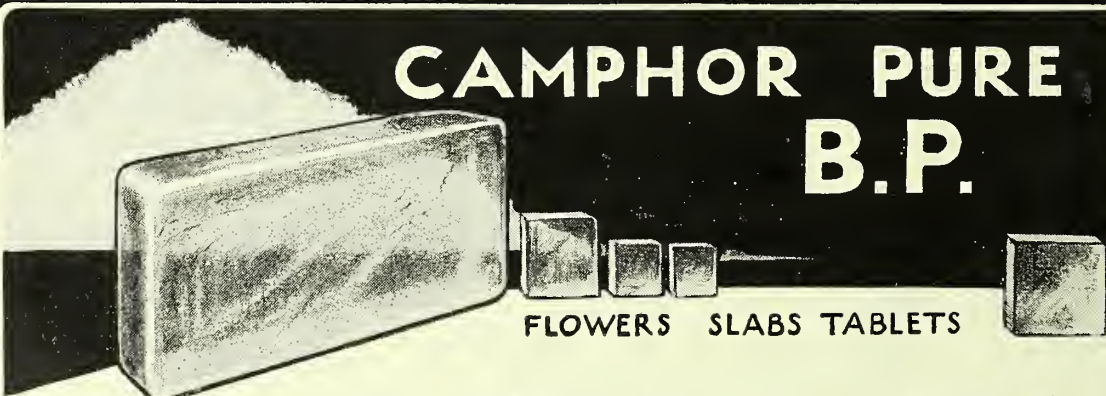
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(3)



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FLOWERS SLABS TABLETS

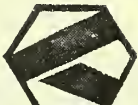
## CAUSTIC POTASH (Sticks, Pellets and Flakes) MENTHOL Synthetic Recryst. TERPINEOL, LICINOL, THYMOL Cryst. B.P.

STOCKS IN LONDON

Telephone : Holborn 9345 (4 lines)      Telegrams : Scheroph, Phone, London

# SCHERING

188-192, HIGH HOLBORN,



# LIMITED

LONDON, W.C.1.



## AN IMPORTANT SELLING LINE FOR CHEMISTS

*Jackson's***6<sup>d</sup>****Centurion  
Series**

11 popular Varieties of  
**LOZENGES & PASTILLES**  
4/- per doz.  
12 doz. at 3/9  
Display outers of 1 doz.

**ERNEST JACKSON & CO. LTD.**  
'Grams: Jackson, CREDITON. CREDITON, DEVON 'Phone: CREDITON 10  
LONDON OFFICE: PLAINTAIN PLACE, CROSBY ROW, BOROUG, S.E.1. Hop. 2668



It is surprising what a difference a good label makes to the finish of your product.

No chemist would tolerate sloppily turned-out dispensing and in these days of keen competition, even the humble slip label reflects the character of your business. Our labels are produced by the litho-offset process and are a distinct advance on older-fashioned styles. We, of course, print for any Drug Trade requirements—labels, brochures, showcards, &c., &c.—and our prices are keen.

We suggest therefore, that in future, it will be an investment to get your

# LABELS

FROM

## STEEL, ADAMS & CO.,

Specialists in Printing for Pharmacists  
GAYTHORN WORKS  
JORDAN STREET. MANCHESTER. 15.

SUPPORTED BY NATIONAL ADVERTISING  
THE ORIGINAL

### L.L.L.

## IODINE BODY BELT

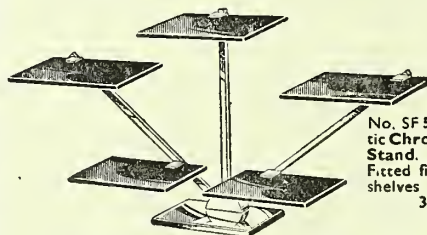
MINIMUM RETAIL **1'6** each SELLING PRICE  
**8/9** PER DOZ.

**SPECIAL PRE-CHRISTMAS BONUS OFFER**  
*Thirteen in the Dozen*

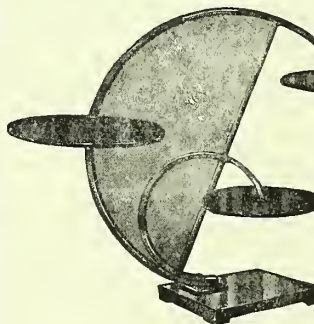
Showing you **120% PROFIT** on outlay  
MAKERS of IODINE LOCKETS since 1932  
ORIGINATORS OF IODINE SOCKS

**LONDON LABORATORIES**  
Empire House,  
70 FINSBURY PAVEMENT, E.C.2  
Telephone: National 3866

### Dudleys for Display Sundries



No. SF 5543 Very artistic Chromium Plated Stand. 18 ins. high. Fitted five Black glass shelves size 9 x 5 ins. 30/- each



5583 This Stand strikes a new note. It is finished in a mixture of oxydised and Chrome Metal with a glass Panel in semi-circle section. Black Glass shelves drop from the arc in an attractive manner, there are two 6 in. and one 8 in. circles. Height 17 ins., width 20 ins. 30/- each.

May we send you our catalogue of Display Fittings, No. C. D. 1615? Prices net ex works.

### Dudley & Company, Limited

Holloway Rd., London, N.7

City Showrooms: 65 Fore St., E.C.



*A proved  
quick seller  
for your winter displays*

The common cold is still the chemist's most constant "money-spinner." Penetrol Inhalant and Tablets are in demand throughout the whole of the year, but more especially during the winter months, October to March.

Ever increasing personal recommendation, backed by judicious advertising, has made Penetrol sales grow bigger and bigger each year, whilst the introduction of *Penetrol Tablets* (Ephedrine Co.) last year was an immediate success.

Window shows and counter displays of Penetrol during the winter season quickly show a profitable return. Striking show-matter is sent with every order and strong, persuasive Press Advertising will be appearing throughout the winter. Please co-operate by giving Penetrol a prominent display.

*The Public prefers*

**PENETROL**  
BRAND  
**INHALANT & TABLETS**

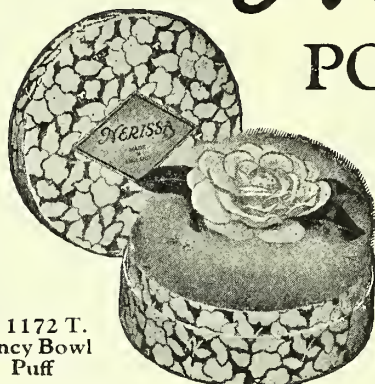
**W. B. CARTWRIGHT LTD., RAWDON, LEEDS**



# NERISSA<sup>Regd.</sup>

## POWDER PUFFS FOR CHRISTMAS!

—“a very beautiful range, most attractively presented.”



P. 1172 T.  
Fancy Bowl  
Puff



P. 1388. Tinted  
Handkerchief Puff

### SPECIAL FEATURE:

SIGNED PORTRAITS OF FAMOUS STARS OF THE STAGE, SCREEN and RADIO, with testimonials praising our puffs, are now available—WRITE FOR A SUPPLY.

# SOLPORT

BROTHERS LIMITED

Latest Illustrated Price List now ready  
184-192 GOSWELL ROAD, LONDON, E.C.1

# EVERYMAN *will use it . . .*

# MORNING PRIDE<sup>REGD.</sup>

## THE RAZOR READY BRUSHLESS SHAVING CREAM HEADS FOR SUCCESS with huge Advertising Campaign and a £350 Competition

### PRIZES FOR YOU

#### A Window Display Competition

- 1st Prize £30
- 2nd Prize £20
- 3rd Prize £10
- and 50 £5 prizes

The above prizes will be awarded to the retailers who submit photographs of a window displaying Morning Pride Brushless Shaving Cream. Showcards, cartons and display material and particulars obtainable on enquiry from the distributors.

Owing to advertisements in the great national daily newspapers, and others in the weekly and monthly journals that are now appearing, there will be a quick and increasing demand for 'Morning Pride' Brushless Shaving Cream. To make doubly sure of demand there is an introductory public competition with £350 in prizes. It is advisable to order your stocks early if you wish to participate in the huge sales and profits of this great sales drive. **WRITE NOW FOR PARTICULARS OF THE MOST ATTRACTIVE INITIAL ORDER TERMS FOR THE TRADE.**

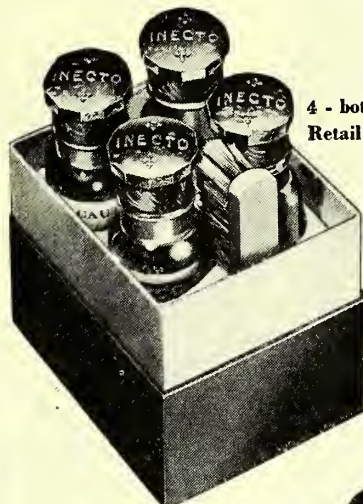
PRODUCT OF FAIRY DYES, LTD., PHARMACEUTICAL DEPT.

**SOLE DISTRIBUTORS: FASSETT & JOHNSON LTD**

86, CLERKENWELL ROAD LONDON E.C.1



2 - bottle Outfit,  
Retail Price 3/6



4 - bottle Outfit,  
Retail Price 6/6



8 - bottle Outfit,  
Retail Price 12/6

# INECTO

*The Grey Hair  
Recolourative  
- now Available in*

## THREE CONVENIENT SIZES

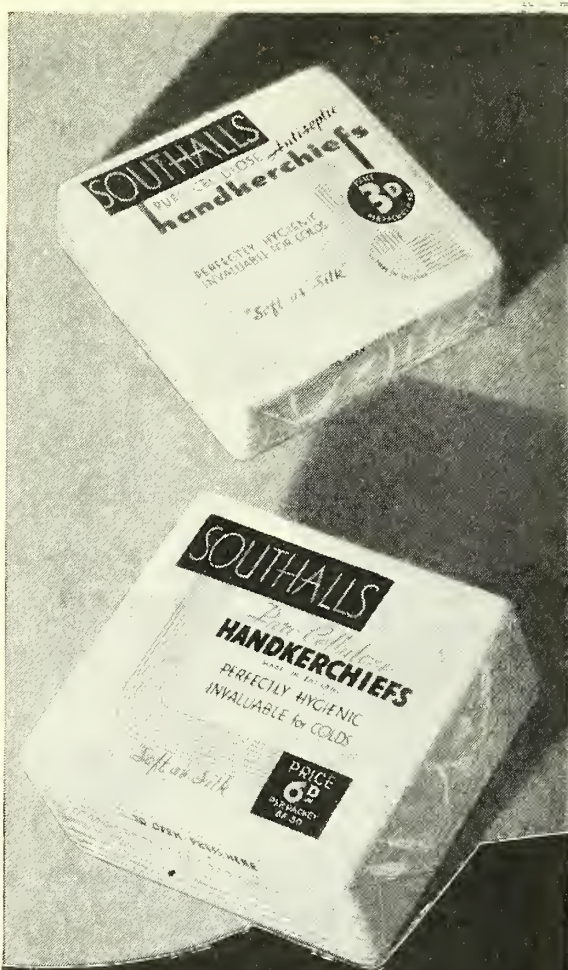
2-Bottle Outfit, Wholesale 30/- per dozen, Retails at 3/6 per Outfit

4-	"	"	"	48/-	"	"	"	"	6/6	"	"
8-	"	"	"	84/-	"	"	"	"	12/6	"	"

### INECTO

ENQUIRY BUREAU: 27 DOVER STREET, LONDON, W.1.  
Telephone: Regent 7541 (12 lines)





## SOUTHALLS *Cellulose* HANDKERCHIEFS

Soft as silk—healthy and  
save washing. Packed in two  
forms, plain or antiseptic.

### PRICES

3d. Packets of 15 plain 23/- Per gross packets  
" " 12 antiseptic

6d. Packets of 30 plain 46/- Per gross packets  
" " 24 antiseptic

Please obtain from  
your Wholesale House

## SOL-VO SELLS ITSELF



SOL-VO gives a good margin of profit to the Chemist and is economical for the customer because it contains nearly three times as much paper as the "so-called" cheap varieties. It pays to stock and display SOL-VO. Why not give it a trial?

FORD, SHAPLAND & CO. Ltd.

GT. TURNSTILE, HIGH HOLBORN,  
LONDON, W.C.1

Telephone: Holborn 4695.

## GARDINER & CO.

(THE SCOTCH HOUSE) LTD.

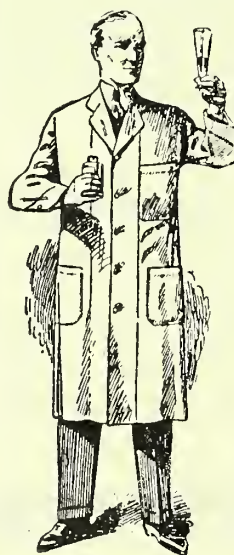
1, 3 and 5 COMMERCIAL ROAD

Estd. 1839 Phone: Bishopsgate 6751 LONDON, E.1

2 min. from Aldgate—1 min. from Aldgate E. Stns.

Branches throughout London

### For High Grade OVERALLS & UNIFORMS

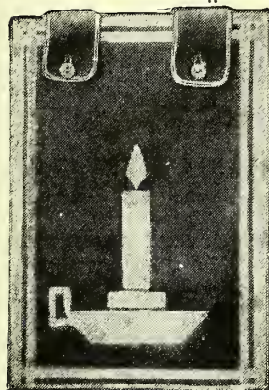


Long White Coats (as illus.),  
5/11, 7/6, 9/6, 12/6. Grey,  
7/6, 9/6, 11/6. Black, 14/6.  
Short White Jackets, Strong  
Drill, 4/6, 5/6, 7/11. Grey,  
6/11. Black Poplin, 12/6.  
Ladies' Long White Coats,  
with belt, 8/11, 10/6.  
"Crossover" Style, 5/11,  
7/6, 10/6.

Any colour or design to order.  
Patterns and illustrated price  
list, post free. Special prices  
for quantities. Post orders—  
State chest measure and height.  
If no A/C, goods sent C.O.D.  
or on approved reference, cash  
refunded if not approved.  
Hours: 9-7. Sats. 9-8.30.  
Thursdays 1 o/c.



## GOOD NIGHT!



Now is the time to sell the "Good Night" (registered design) Hot Water Bottle Cover. Makes a splendid and topical window display—pulls customers—and satisfies them.

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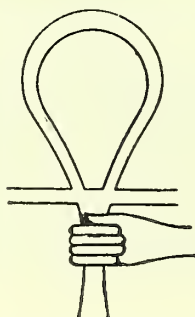


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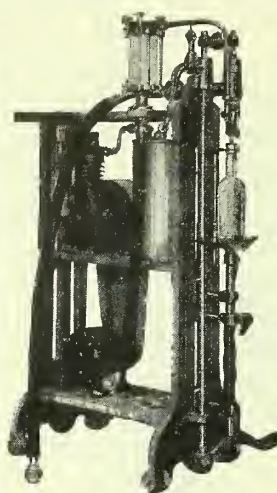
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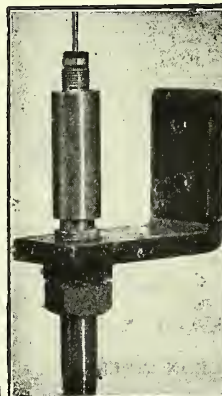
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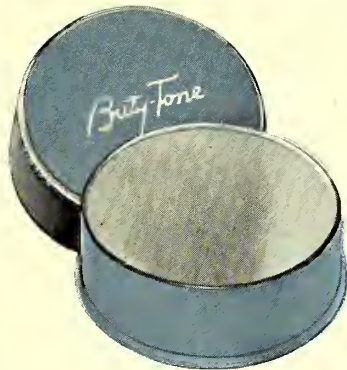
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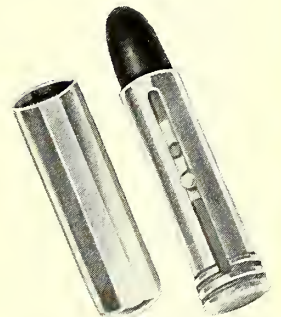


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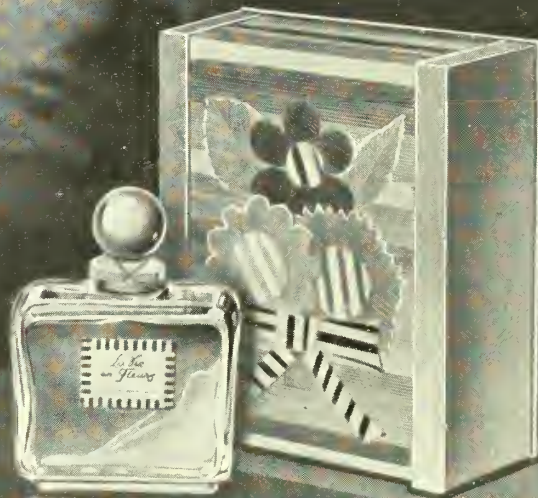




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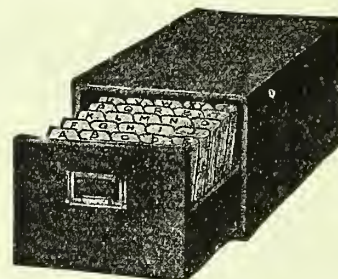
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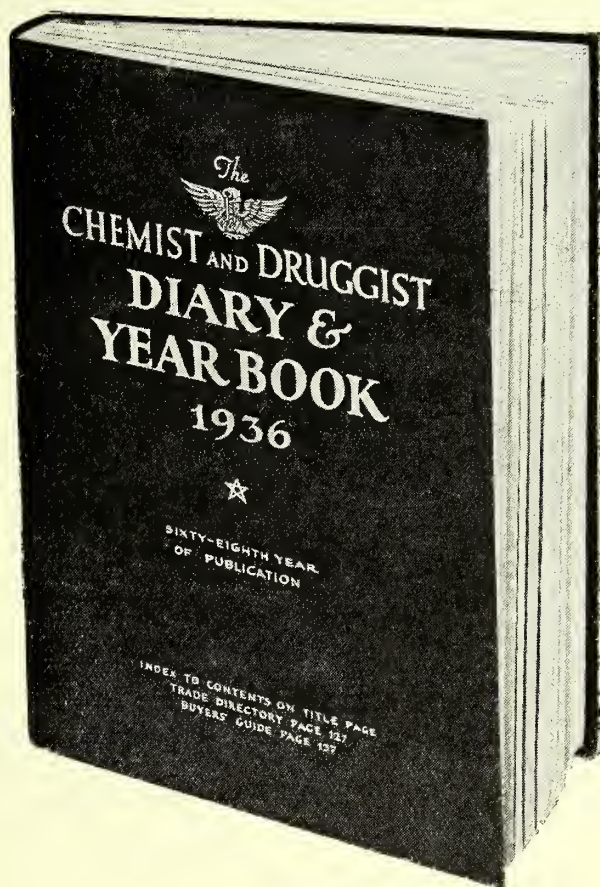




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# THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,  
The Pharmaceutical Society of Northern Ireland,  
The Chemists' and Druggists' Society of Ireland, and of  
other Chemists' Societies in Overseas Dominions*

PUBLISHED AT

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London" Telephone: Central 6565 (8 lines)

## BRANCH OFFICES

4 CANNON STREET, MANCHESTER (TEL.: BLACKFRIARS 3052)  
54 FOSTER'S BUILDINGS, HIGH STREET, SHEFFIELD (TEL.: 22458)  
19 WATERLOO STREET, GLASGOW (TEL.: CENTRAL 2329)

372 FLINDERS LANE, MELBOURNE, AUSTRALIA  
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155 AVENUE DE WAGRAM, PARIS, XVII<sup>e</sup> (TEL.: ETOILE 19-79)

PLANTAGE FRANSCHELAAN 32 AMSTERDAM-C, HOLLAND

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## News of the Week

### Chemists' Mutual Insurance Co., Ltd.

The thirteenth annual meeting of members of the Chemists' Mutual Insurance Co., Ltd., was held at 4 and 5 Queen Square, London, W.C.1, on November 26, Mr. S. J. Stearn, in the chair. After the secretary (Mr. G. A. Mallinson) had read the notice convening the meeting, the chairman submitted the directors' and auditors' report and the statement of accounts. He said chemists were more and more realising that it was only sound business to insure with their own company, as was evident by the fact that the number of members, policies in force and premium income had reached higher levels. The directors had decided to give a free renewal, every sixth year, of householder's comprehensive policies, provided there had been no claims during the period. This innovation would commence from December 1, 1935, and would not affect the normal bonus distributions made periodically. He referred to the strong financial position of the company and the fact that the funds were over six times the amount required for statutory reserves. The reinsurance treaty was being continued, however, so that the security was absolutely assured. He asked for the adoption of the report and accounts. These were carried *nem. com.* The retiring directors and the auditors were re-elected.

The directors' report states that dividends from investments and commission from reinsurances have considerably increased and provide a substantial source of revenue. A further amount of £1,000 has been transferred from profit and loss account to general reserve, which now stands at £5,500, and after providing for income tax the amount carried forward is £3,092, against £2,287 brought in. The balance sheet reveals a very satisfactory financial position; funds have increased by over £4,500, and are now £27,660. The surplus over the amount required for statutory reserves is £24,642. Investments are shown at cost (or under) of £25,100, but the market value is considerably higher. All funds are in gilt-edged securities.

### Sessional Events

A meeting of the Reigate, Redhill and District Pharmacists' Association was held on November 22, when Dr. T. H. Bingham (medical officer of health) lectured on "Preventive Medicine." Dr. Bingham reviewed conditions prevalent in former centuries and traced developments in communal hygiene to the present day. He gave interesting figures illustrating the vast strides which had been made in the present century. A collection on behalf of the Benevolent Fund realised £12.

The annual meeting of the Medway Branch of the Pharmaceutical Society was held at Chatham recently. The following officers were elected:—*Chairman*, Vivian Ross; *Vice-Chairman*, A. H. Clark; *Treasurer*, J. E. French; *Secretary*, L. R. Nicholson. The retiring chairman (Mr. W. D. G. Barker) proposed that a letter of appreciation for her services be sent to the former secretary (Miss Durrans). Mr. J. E. French gave an address on the Chemists' Friends scheme of the National Pharmaceutical Union. After a lively discussion, a vote showed the Medway Branch to be an enthusiastic supporter of the scheme.

Mr. H. C. Browne presided over a good attendance of the Eastbourne and District Branch of the Pharmaceutical Society of Great Britain at the Grand Hotel, Eastbourne, on November 20, when Mr. F. W. Adams, B.Sc., A.I.C. (assistant secretary of the Society), spoke on "The Poisons Rules and List as They Affect the Pharmacist." The Rules, he said, must be considered with the Act. A discussion followed Mr. Adams's address. Among those who took part were Messrs. L. J. Arter, C. Cluett, Alfred C. Harmer, George Harmer, W. J. Edmonds, H. Mills, H. Gregson, W. Stiles, T. G. Hunnise, A. Rankine, G. Checkley, W. A. Russell, F. Temple and the secretary.



### Inquests

At Rugby, recently, "Death from strychnine poisoning" was the verdict at an inquest on the body of a man believed to be E. G. Noller. A note found on the body stated: "Strychnine procured abroad."

A verdict of "Suicide whilst temporarily of unsound mind" was returned at a Northwich inquest on November 25 on the body of Thomas Cross, aged sixteen, a student at a local school, who died in Northwich Infirmary. A medical witness said he was called the previous day to the boy's home and found him in the kitchen. He was conscious, and said he had taken about 15 gr. of mercuric chloride. The coroner remarked that the boy must have taken the poison from his school.

### Blackburn

The North-East Lancashire Branch of the Pharmaceutical Society heard, on November 26, an address by Mr. E. H. Simmons (a member of the Society's Council), Mr. Ralph Pickup (president) in the chair. Mr. Simmons said the New Year would witness the operation of the new Rules concerning the sale of poisons. In the form in which it was originally passed the Act was practically unworkable. They would recall that a similar experience was encountered with the National Health Insurance Act and later with the Transport Act. The Poisons Board was asked to formulate a Poisons List, and had since been busy hammering out a new Schedule. The second List was assuming more its final form, but the Home Secretary was still receiving representations which might lead to other modifications. Two factors appeared to have affected the construction of the List:—(1) The consistent endeavour of the Poisons Board to carry out the spirit of the amendment which was responsible for the withdrawal of the Society's opposition when the Bill was passing through Parliament, namely, that in deciding what should be put into Part II of the List regard should be had to the desirability of including only such things as were not to be used in the treatment of human ailments; and (2) the endeavour of the Board to remove any restrictions likely to interfere with the legitimate use of poisons in trade or industry. The Board took the view that the main interest of pharmacists was in the dispensing and supply of poisons likely to be used in medicine. An entirely different set of conditions must control the use of the much greater volume of poisonous substances which were being increasingly used in industry. The Dangerous Drugs Act was not relaxed.

Answering questions, Mr. Simmons said that under the new Act they trusted the pharmacist a great deal, and it was up to him to exercise reasonable care. They now had a Statutory Committee like other professions, and this was important. The inspectors would be sympathetic, especially in the early stages, but they would have wide powers in calling for the production of documents, etc. The ordinary smallholder or allotment occupant was not regarded as an agriculturist under the Act. A member: I am afraid there will be considerable argument as to the people entitled to sell these horticultural and agricultural preparations. Mr. Simmons: There may be in the early stages, but I think things will settle down—not to your disadvantage. Mr. W. H. Lightbown, proposing a resolution of thanks to the speaker, said that probably they would not sell sufficient poisons in Blackburn even to pay the fees of the Society. Mr. Simmons, in reply, said he hoped the inspectors would approach the pharmacists very much in the same way as the inspectors did the doctors in connection with National Health Insurance.

### Blackpool

Dr. Stanley White gave an address on "Hormones" to members of the Blackpool Branch of the Pharmaceutical Society at the Queen's Hydro on November 21, Mr. H. Hall (president) in the chair. Some forty members and apprentices were present.

The Blackpool Chemists' Football Club now hold third place in the Wednesday Section, Blackpool and District Amateur Football League table. In a recent engagement they defeated St. Peter's 3—0 away, Lofthouse and Moorhouse (2) being the scorers. Mr. A. R. Sidebottom (secretary of the Blackpool Branch of the Pharmaceutical Society) has been co-opted to the team's committee.

### Bristol

At a meeting of the Bristol Branch of the Pharmaceutical Society, held on November 21, Mr. Cooper in the chair, a

lecture on "Glands" was given by Mr. W. Hetherington, Ph.C., pharmacist at the Bristol General Hospital. After outlining the history of gland therapy, the lecturer proceeded to give a detailed account of each gland, its use in medicine and the methods by which the various products are prepared. The lecture was fully illustrated by diagrams of the animals from which the glands are extracted. Specimens of each of the principal glands were shown, either in the fresh state or dried as prepared ready for extraction of the active principles.

### Cardiff

At a successful dinner and dance of the Cardiff and District Pharmacists' Association at the Park Hotel, Cardiff, on November 27, the chief guests were Mr. Thomas Marns (vice-president of the Pharmaceutical Society) and Mrs. Marns. A reception was first given by the president and his wife, Mr. and Mrs. Trevor Thomas, in the Whitehall Rooms, after which the company proceeded to the Prince's Rooms for dinner. After the loyal toasts had been given, the president rose to propose the toast of "The Pharmaceutical Society of Great Britain." Mr. Thomas, on behalf of the "United Chemists of Wales," thanked Mr. Marns for his help in securing the return of Mr. H. M. Lloyd to the Council. Mr. Marns mentioned that the return of a councillor from Wales showed what united effort could do. He emphasised the need for pharmacists' support for the Benevolent Fund, and quoted figures. When he mentioned the name of J. D. Jenkins, known to everyone as "J. D.," he had to pause, owing to the cheers, before praising the latter for his work for the Benevolent Fund. In conclusion he suggested that the last Conference held in Cardiff had been so successful it should again be held in South Wales. He suggested Swansea, and mentioned that the first available date was 1940. Other toasts were, "The City and Trade of Cardiff," proposed by Mr. J. Lee Jones, one of the oldest South Wales Pharmacists, and responded to by the Deputy Lord Mayor of Cardiff. "The Ladies," "The Visitors and Kindred Associations," and "The Cardiff Pharmacists' Association" were among other toasts proposed. The menu was in Latin. Dancing commenced at 10 p.m., and several spot prizes were awarded during the evening. Several coffrets, presented by manufacturers and wholesalers, were raffled. Guests included the deputy Lord Mayor and Lady Mayoress of Cardiff, Mr. Q. Temple Morris, M.P., and Mrs. Temple Morris; Mr. H. M. Lloyd, J.P.; Mr. Bernard Morgan, M.A. (president of the Cardiff Chamber of Trade); Dr. J. Greenwood Wilson, M.D., M.R.C.P. (medical officer of health to the City of Cardiff), and Mrs. J. Greenwood Wilson; the presidents of the Newport and Swansea Branches and others. A contingent of twenty arrived from Swansea. Newport was also represented.

### Kingston-on-Thames

Mr. A. J. Fairlee addressed members of the Thames Valley District Pharmacists' Association on "Pharmacy Lore" on November 26, Mr. Palmer (president) in the chair. Several specimens from his extensive collection of old pharmacy jars and some old medicine bottles illustrated his remarks. Mr. Fairlee traced the history of pharmacy from very early times. The great advance in pharmacy and medicine, he said, came when the Arabs swept into Spain. Cordova, their capital, became the greatest centre of learning in Europe. In the Middle Ages, Arabs and Jews, who had studied at Cordova and Seville, tramped through Europe selling their remedies and teaching the monks and priests. In 1682 a poisons register was introduced in France. Pharmacy in England made very slow progress. In Norman times the retail trade was in the hands of the mercers. In 1429 a charter was given to the Grocers' Company, who were wholesale dealers in drugs. In 1617 the Society of Apothecaries' charter raised them to the status of a City guild, the only one that is called a society. The speaker traced various attempts of the Society to make it a penal offence for chemists to prescribe. Containers of silver or horn were used in early days for liquids and tin for fats. Later clay, glass, lead and wood were also used. Enamelled pottery was introduced into Europe by the Moors, who knew the secret of making an opaque glaze. The syrup jar, with spout, is not recorded until about 1530. Fifteenth-century Italian pharmacies must have had an ornate appearance, the walls being panelled in oak, divided into niches with



shelves on which the jars were placed. In the centre niche a figure of Æsculapius was usually placed. In England a Plymouth chemist, William Cookworthy, took out a patent for the manufacture of china clay in 1768. A vote of thanks was proposed by Mr. Clement.

### Liverpool

A Liverpool firm of druggists, to ensure that a ten-pound parcel consigned to a customer in the lonely Tristan da Cunha Island should catch the mail from London on November 28, despatched it by air liner to Croydon. Had the parcel missed this mail it would have had to wait many months for the next.

On December 4, Robert J. McGrath, soap mixer, China Street, Liverpool, successfully appealed in the Court of Appeal in London against the dismissal by the Liverpool County Court judge of his claim for compensation under the Workmen's Compensation Act against Day & Emery, Ltd., manufacturing chemists, of Everton Terrace, Liverpool. The matter was remitted to the County Court judge to ascertain the amount of incapacity and assess compensation.

### London

At Marylebone Police Court, on November 28, Mr. Robert V. Storer, Cavendish Square, W.1, who, it was stated, was formerly a registered medical practitioner, was fined for treating patients for a specified disease. The fines and costs amounted to £121.

A large party of members of the West Ham Branch of the Photographic Dealers' Association visited Kodak works, Harrow, on November 21. The party travelled by coach from Stratford. After a two hours' tour through the various departments tea was served. Mr. W. Thompson (chairman of the branch) expressed the thanks of the members.

A supper-dance arranged by the South-West London Chemists' Association was held at the Express Rooms, Clapham Junction, S.W.11, on November 27. During the evening spot prizes were presented to Mrs. Smith and Mr. Reed; Mr. Ritches and Miss Kerfoot; Mrs. Rees and Mr. Smith; Mr. Hope Evans and Miss Thomas. A visit from Mr. and Mrs. J. Keall, Mayor and Mayoress of Wandsworth, was much appreciated.

One of the latest venturers into the field of cosmetics and beauty treatments is Mr. George Robey, the comedian. In conjunction with his manager, Miss Blanche Littler, Mr. Robey has opened a beauty parlour in Dover Street, London, W.1, under the style "Blanche." The very large saloon contains numerous cubicles adapted to different processes ranging from foam baths and chiropody to permanent waving, massage and facial treatment. Saloon, cubicles and attendants conform to a colour scheme of "Margaret rose" and "Mary blue." The saloon is to specialise in treatments hitherto little known in England, such as foam, paraffin wax, brine, sulphur and mud baths, turtle-oil massage, and jasmine wax applications. Our illustration shows Mr. Robey under treatment in the new beauty parlour.



The annual dinner and dance of the London College of Pharmacy was held at the Criterion Restaurant, W.1, on November 27. Guests were received by Mr. and Mrs. I. G. Rankin. After-dinner speeches were contributed by Mr. Fox, a present student, who made reference to the "wonderful spirit of comradeship" at the College, to a recent College "expedition" to Birmingham, and to the popularity of the weekly college magazine; by Mr. Rankin (principal), who named visitors from Wales, Hereford, Ipswich, Canvey Island and other outlying parts; and by Mr. A. R. Harwood.

### Manchester

The annual staff dinner and dance of James Woolley, Sons & Co., Ltd., took place at the Grand Hotel, on November 30, and proved one of the most successful of a long series extending



[Photo]

GROUP AT MANCHESTER PHARMACY STUDENTS' DINNER

[Reavy]



over a period of half a century. The 250 guests included Lieutenant-Colonel Stanley Watson, D.S.O., M.C. (who presided) and Mrs. Watson, Mr. and Mrs. G. S. Woolley, Mr. and Mrs. J. H. Franklin, Mr. and Mrs. A. Maude, and Mr. D. H. Howard. Following the dinner Mr. Woolley, on behalf of the directors and staff, presented a case of pipes and a cheque to Mr. F. Broughton, to mark the occasion of his retirement after forty-six years' service with the company. Dancing terminated a very pleasant evening.

The sixth annual reunion of past-students of the Pharmaceutical Department of the University took the form of a dinner-dance, held on November 27 at the Grand Hotel. There was a record attendance, over 160 past-students and friends being present. The principal item in the programme was a presentation to Mr. James Grier, M.Sc., who was the recipient of a cheque, gold wristlet watch and album of signatures of subscribers. The guests were received by the president of the Students' Association (Mr. H. Brindle, B.Sc., and Mrs. Brindle). After dinner Mr. Brindle proposed the loyal toast and gave a humorous address before calling on Mr. Berry to make the presentation to Mr. Grier. After presenting Mrs. Grier with a bouquet of carnations, Mr. Berry referred in felicitous terms to Mr. Grier's work at Manchester University and as an examiner to the Pharmaceutical Society. He was sure that the success of the students from the Pharmaceutical Department of the University was due in no small measure to the teaching they had received there, and he believed that Mr. Grier would look back with pride and satisfaction on his connection with the Department. Mr. Grier made a delightful speech in reply. The book of autographs would, he said, recall many pleasant memories of old friends at home and in many other parts of the world. Since his retirement he had received several tributes to the work he had done in developing the Pharmaceutical Department of the University. These tributes and the presentation that had been made would remain an abiding memory. He had always had the interests of his students at heart, first because he sympathised with young people in these difficult times, and secondly because he remembered his own early trials and difficulties. After a humorous account of some of these episodes, Mr. Grier added that the warm appreciation from colleagues, friends and students was a great joy and happiness. The loyal co-operation of his teaching staff had greatly helped in developing the Department, which Mr. Brindle was taking over fully equipped and would supervise with credit and distinction. At the conclusion of the speeches Mr. F. Brecknell sang and Mr. Graham Adams entertained; the rest of the evening was spent in dancing. Mr. Prowse and Miss Whittington were the winners of the spot-dance, and Messrs. Barker and Cetti acted as M.C.s. (Picture on p. 665.)

### Norwich

The Norwich and District Branch of the Pharmaceutical Society met on November 19, Mr. J. F. Collin in the chair. The speaker of the evening was Mr. J. W. Atkinson (a member of the Society's Council) who commenced by referring to the question of doctors' dispensing. They must remember, he said, that some people preferred to get their medicine from the doctor. Many branches, backed up by the Society, had succeeded in getting the chemist included as dispenser in medical service schemes and in Public Assistance dispensing. The Brunswick Square scheme was next touched upon. He felt sure that the Society were acting wisely in building on the excellent site they had purchased. He congratulated the Norwich Branch for their efforts on behalf of the Benevolent Fund in recent years, and urged them to improve if possible. Changes brought about by the decisions of the Poisons Board would not worry the chemist much. There would be nine inspectors under the Act, all experienced members directly controlled by the Society. Their duties would be in connection with the storage of poisons only, and their visit would not be followed by prosecutions, but possibly by helpful advice. The Publications Committee carried on a very useful work. During the discussion which followed Mr. Collin said that the improvements in education were good, but unfortunately the subsequent remuneration was not adequate. Mr. Cook declared that the Society's booklet stressed the attractive educational steps taken, but failed to state the difficulty of finding a suitable situation at a satisfactory salary. His two sons had both qualified, but had found more remunerative occupations outside retail pharmacy. The councillors were men who were well off and too complacent; there should be a scheme for paid coun-

cillors. Mr. Lacey inquired how the income from registration fees was to be spent. In reply, Mr. Atkinson stated that a new charter would be required before councillors could be paid, and that the income from registration fees would be spent on inspection. Mr. Lacey, in proposing a vote of thanks, said that Mr. Atkinson had been able to explain many problems, but had not been able to show that the pharmacist in business could expect much help from the Society.

### Miscellaneous

**WINDOW-DRESSING AWARD.**—At a window-dressing competition held at Richmond, Yorks, recently, the second prize in the class for "Things to Use" was awarded to N. Clarkson & Son, chemists, King Street.

**THE Pharmacy Department of the Leicester Colleges of Art and Technology** is to hold an annual reunion. A supper and dance have been arranged for February 12 at the Grand Hotel. Requests for tickets should be made by December 14.

**THE ROYAL SOCIETY.**—Sir William Bragg has been nominated as president of the Royal Society in succession to Sir Frederick Gowland Hopkins. Among the awards announced is that of the Davy medal to Professor Arthur Harden for work in biochemistry.

### Irish Notes

#### Reunion Dance

The first pharmaceutical social function of the season was held at the Gresham Hotel, Dublin, on November 28, when Irish Pharmaceuticals, Ltd., held their third annual reunion and dance. The event attracted a representative gathering from Dublin and district, and also from the provinces. A committee of which Mr. S. T. MacAuley (managing director of the company) was chairman left nothing undone to assure a most enjoyable evening. Dancing continued to the early hours of Friday morning. Valuable spot prizes were awarded. Amongst the trophies given by the firm were a set of Belek china, a Foxford rug, a gentleman's hand-woven Donegal tweed overcoat, and other useful prizes. Two prizes were also presented



*In the front row:* THE LORD MAYOR OF DUBLIN, THE PRESIDENT OF THE PHARMACEUTICAL SOCIETY OF IRELAND, MR. J. MILROY, MR. S. T. MACAULEY.  
*In other rows:* SIR THOMAS ROBINSON, MR. T. C. SCOTT, MR. C. J. CREMEN, MR. P. C. CAHILL, MR. J. A. O'ROURKE.

by the Irish Glass Bottle Co. Each lady patron was presented with a bottle of perfume, while a gay assortment of carnival novelties was distributed after midnight by Mr. B. MacNamara (M.C.). Visitors included the Rt. Hon. Alfred Byrne (Lord Mayor of Dublin), Mr. J. F. Costello (president of the Pharmaceutical Society of Ireland), who came with a party from Galway, Mr. J. A. O'Rourke (vice-president of the Pharmaceutical Society of Ireland), who brought a party from Dun Laoghaire, Mr. T. C. Scott (president of the Irish Drug Association) and Miss Scott, Mr. J. Milroy (president of the Federation of Irish Industries) and Mrs. Milroy, Mr. C. J. Cremen, M.C.P.S.I.



Chairman of Irish Pharmaceuticals, Ltd.) and Mrs. Cremen, Mr. P. C. Cahill, M.C.P.S.I., and party, Sir Thomas Robinson and Lady Robinson, Mr. J. K. Whelehan, M.C.P.S.I., Mullingar, and Mrs. Whelehan, Mr. J. Gleeson, M.C.P.S.I., and party, Mr. P. D. Larkin, M.P.S.I., and Mrs. Larkin, Mr. F. Hugh O'Donnell and party, Mr. G. O'Neill, M.P.S.I., Mr. and Mrs. Blennerhasset (Irish Independent Newspapers, Ltd.), Mr. H. P. Corrigan, M.P.S.I., Mr. P. D. McGrath, M.P.S.I., Mr. Brendan Smith, M.P.S.I., Mr. A. D. Davidson (May, Roberts & Co., Ltd.) and Mrs. Davidson, Mr. W. Rowland (Evans Sons Lescher & Webb, Ltd.) and Mr. and Mrs. H. G. Smith.

### Brevities

Mr. John Sandford, Ph.C., has been elected vice-president of the Portadown Chamber of Trade.

The Cork Chemists' Social Club appeals for financial support for the annual dance to be held in January 1936.

Mr. Joseph M. Gorry, Ph.C., has purchased and reopened The Medical Hall at 4 Charles Street, New Ross, co. Wexford.

The "Irish Times" of November 30 announced the endowment of medical research to the extent of £10,000 per annum from the funds of the Irish Hospitals' Sweepstake Trust, Ltd., with the approval of the Government of the Free State.

Irish Free State Licensed Grocers' and Vintners' Association, at a recent meeting, passed a strongly worded resolution calling on the Free State Government to introduce the legislation necessary for the abolition of wine licences granted to chemists. A correspondent writes: "It is hardly likely that the resolution, which is now becoming an annual affair, will bring about any change."

### Belfast

Mr. Fred Storey, Ph.C. (president of the Wholesale Merchants and Manufacturers' Association of Belfast) was a member of a deputation which waited on the Postmaster-General on his visit to Belfast on November 26. Mr. Storey dealt with the need for a new General Post Office. The Postmaster-General announced later that it had been decided to rebuild the existing establishment and take in the property recently acquired beside it.

News has been received in Belfast of the death at San Francisco, as the result of an accident, of Mr. Norman Todd, brother of Mr. Horatio Todd, Ph.C., 72 Hollywood Road, Belfast, who was the first president of the Pharmaceutical Society of Northern Ireland. The deceased served an apprenticeship in the drug trade to Mr. Huston Lancashire, Ballymena, and was afterwards for a time with his brother at Belfast. He served with the United States Force in France during the war, and after demobilisation settled in San Francisco.

### Dublin

The Dublin staff of Messrs. Kodak, Ltd., held an enjoyable dance at Mills Hall, Merrion Row, on November 28.

Already many of the leading Dublin pharmacies have put in attractive Christmas windows of coffrets, gift sets and other seasonable lines.

Dr. A. T. McKay, M.P.S.I. (an examiner to the Pharmaceutical Society of Ireland), presided at the St. Andrew's Day dinner held in the Hibernian Hotel by the Scots' fraternity in Dublin on November 29.

The Pharmaceutical Chemists' and Assistants' Union Social Club held a successful smoking concert in aid of the Arranmore Relief Fund at Jury's Hotel, Dublin, on November 20, when an enjoyable musical programme was given. Mr. D. O'Dwyer, who presided, welcomed the guests. This was the first occasion, he said, on which they had organised a smoking concert. Mr. C. Staunton and Dr. A. Doherty were at the piano, and the artists included Miss P. Black, Messrs. P. J. Ellis, M. Murray, W. Preston, J. P. Burke and F. Goodwin. The following committee were responsible for organising the concert: Messrs. F. C. Kavanagh (chairman), T. B. O'Sullivan (secretary), D. Dwyer, S. Murphy, P. G. Redmond, D. Murphy, M. L. Cashman, J. Tracey, B. O'Duffy, and M. D. Walsh.

## Scottish Notes

### Brevities

Mr. J. S. Stewart, chemist and druggist, has been elected vice-president of the Auchterarder (Perthshire) Merchants' Association.

Miss Ena Murray, for six years on the staff of Boots, Ltd., Dumfries, has been presented by the staff with a handbag on her departure to another branch.

Mr. Archibald Watt, joint secretary of T. & H. Smith, Ltd., manufacturing chemists, Edinburgh, has been admitted a member of the Edinburgh Merchant Company.

A dog wandered into a chemist's shop in Ardgowan Street, Port Glasgow, recently, and upset a large bottle of ammonia. A newspaper account states: "Firemen wearing smoke helmets fought the fumes for more than an hour. The dog escaped."

Mr. A. G. Adamson, chemist and druggist, Kirkcaldy, has been elected a Bailie of the town. Introducing the newly-appointed magistrate to Kirkcaldy police court, a colleague spoke appreciatively of his long business experience and participation in public work.

Miss E. A. Carlton, Lochee, Dundee, went by aeroplane to Belfast on November 27 to attend the annual dinner of the Belfast Soroptimist Club, at which she replied to the toast of "British Soroptimist Clubs." The return journey, with a gale blowing, was not an entirely pleasant experience.

Mr. David Mathewson, chemist and druggist, was presented with an antique French china cabinet at Mackie's Restaurant, Princes Street, Edinburgh, on November 22, by members of the Ravelston Club. Mr. Mathewson, who captained the club for seven years, was one of the original members of the committee at the Club's formation in 1912.

Judgment was given on November 22 in favour of Mr. John Lyle, chemist, Cowdenbeath, in an action raised in the Court of Session, Edinburgh, by Mrs. Mary Walsh, Lochgelly, who claimed £1,000 damages for personal injuries sustained when knocked down by Mr. Lyle's motor car in Lochgelly. Pursuer was stepping off the pavement to board a tramcar at the time, but the defender maintained that she was guilty of negligence. The jury's verdict was unanimous.

The Aberdeen and District Pharmacists' Golf Club held a smoking concert in the Royal Athenæum, Aberdeen, on November 27. Mr. W. H. Craighead, who presided, presented the following golf trophies won during the season:—*Paterson trophy*: Mr. W. J. Hendry; runner-up, Mr. W. Thomson. *Ness cup*: Mr. John M'Connach; runner-up, Mr. H. P. Forbes. *Foursomes prizes*: Messrs. G. Allan and J. M. Forsyth; runners-up, Messrs. C. A. Michie and W. H. Craighead. *Captain's prize*: Mr. H. M. Dugan; runner-up, Mr. W. J. Hendry. *Banchory outing prizes*: First, H. M. Dugan; second, W. J. Hendry; third, J. Farquhar.

### Edinburgh

At the Heriot-Watt College, on November 29, Mr. James Sandilands, F.I.C. (senior lecturer in the Chemistry Department) gave a lecture on the "Evolution of a Match." The lecturer traced the development of the match from the early methods of creating fire, and discussed the symbolic representation of fire and its deification. A brief reference was made to the Celtic festival of Beltane and associated cults such as ordeal by fire, solar radiance and especially the "need-fire," as representing the original meaning of the word "match." Sixteenth and seventeenth century "descendants" of the burning glass of Nineveh were important to the scientist, considering the use to which Priestley put them. Brand's discovery of phosphorus with its immediate consequences were mentioned, but the preparation of potassium chlorate by Berthollet, with his classic experiment, marked the first attempt to produce fire by chemical means. This led to the oxy-muriatic match of Chancel. He was followed by John Walker, inventor of the non-phosphorus friction match, whose immediate imitators were Jones and Watt. The method of using old-time "Prometheans" was demonstrated. Dangers of the "Congreve" matches with their phosphorus content, bad for maker and user, were next described. The "safety" match was invented in 1855 by Lundstrom of Sweden. These safety matches were not so popular as the "strike-anywhere" type,



and the "hermaphrodite" match was introduced as a compromise. Phosphorus continued to be employed in the manufacture of matches until near the close of last century, when phosphorus sesquisulphide was used. The use of phosphorus in the manufacture of matches was eventually prohibited by international convention. Dr. J. J. Blackie, A.I.C., Ph.C. (a governor of the College) occupied the chair.

The opening meeting of the fifty-eighth session of the Edinburgh Chemists', Assistants' and Apprentices' Association was held at 36 York Place on November 29, Mr. F. J. Jackson (president) in the chair. Mr. William Stout (secretary) submitted the report on the prize scheme competitions, and the prizes were presented by Mr. J. Rutherford Hill to the following competitors:—*Ewing Written Pharmacy Prize*, Mr. D. J. A. Paton; *Dey Prize in Chemistry and Physics* and *Duncan Botanical Prize*: Mr. J. Hunter Tainsh; *Dr. Cumming Practical Pharmacy Prize*: First, Mr. J. Priestman, second, Mr. R. Williamson; *McDonald Prize in Theoretical Pharmacy*: First, Mr. C. P. McLennan, second, Mr. J. K. Irving, third, Mr. J. Milne. A vote of thanks was accorded to Mr. Rutherford Hill and to the donors of prizes. Professor Henry Dryerre (a member of the Board of Examiners for Scotland) delivered the inaugural address on "The Significance of Physiology to the Pharmacist." Professor Dryerre commended to the careful study of all students the recent addresses given in London by Sir Frederick Gowland Hopkins at the opening of the Society's College of Pharmacy and the Harrison memorial lecture by Professor Smithells. The study of physiology should appeal to pharmacists because all the processes of life were now being traced to physico-chemical phenomena. Under the new curriculum the pharmacist had a more complete practical knowledge of chemistry and physics than the average medical practitioner. In his own teaching

he had always been guided by the policy never to be limited to the purely academic aspect but always to keep in view the practical application of knowledge to the particular calling of the student. Physiology was very close to therapeutics, as illustrated, for example, in the acute or delayed action of such drugs as thyroxine or digitalis. They had thus a close correlation between physiology, pharmacology, therapeutics and compounding or pharmacy. Modern advances in medicine and pharmacy had resulted in a much closer union and co-operation between medical practitioner and pharmacist. The day had gone when the physician or the surgeon would consider it beneath him to ask advice from the pharmacist.

### Glasgow and West of Scotland

The Glasgow Pharmacy Club is to hold a whist drive in the Athenæum, Buchanan Street, on December 10 at 7.15 p.m. prompt. Tickets, price 2s. 6d. each, are obtainable from the secretary, Mr. Archibald Aitken, 380 Dumbarton Road, Glasgow, W.1.

A lecture on "Vaccines and Serums" was given by Mr. Gordon Rattray, Ph.C. (senior demonstrator in pharmacy at the Royal Technical College, Glasgow), at a meeting of the Paisley and District Chemists' Association on December 2. Mr. Rattray dealt with the principles underlying the use of vaccines in preventive medicine and of serum in the treatment of disease. The methods of preparation of various vaccines and serums, the Schick test for the diagnosis of diphtheria, the Dick test for scarlet fever and protein sensitisation were dealt with in a clear and interesting manner. The next meeting of the Association will take the form of a theatre night to the Royal Princess's Theatre, Glasgow, on January 7. Early application for seats (price 3s. 6d.) should be made to the secretary.

## Topical Reflections

By Xrayser

### "The Good Old Times"

take on a more sentimental value as one gets further away from them; when one lived through them they made no particular appeal. This is apropos of your article on "Cubist" window display (p. 653). I can imagine some of the older school of pharmacists holding up their hands in horror at the suggestion of dressing a window by the methods suggested in this article; and yet if they think back to the days of their apprenticeship or assistantship they will realise that had they enjoyed such helps in the dressing of their windows then they would have made the display in half the time and with twice the effectiveness. I can visualise the old-fashioned window with two iron bars reaching from the floor to the top of the enclosure. Shelf supports were fixed by screws to these, and the glass shelves were graduated in size from the top one downwards. The problem was how to fill these shelves with suitable merchandise and to arrange it in such a way that all the articles were seen by the passer-by. How much easier to build up a display from "cubes," and what a saving in the goods to be displayed! It is true that, with changing methods of supporting and showing the goods, the idea is no longer held that it is necessary to have a lot of them in the window; in fact, numbers detract from the effectiveness of many kinds of displays.

### Your Scottish Readers

will find ample food for thought in the Scottish Notes of your last week's issue. As might have been expected, the promoters of the Edinburgh Public Medical Service have been seriously perturbed by the fact that the cost of prescriptions exceeded the estimate during the first year of working; and I am not surprised to see that steps are being taken to safeguard the funds of the Service against the recurrence of such a misfortune. On the other hand, pharmacist contractors will learn with mixed feelings—if they did not already know—that it is proposed to allow subscribers requiring invalid or infants' food to obtain these at reduced rates. As to

the claims of public bodies to make a charge for the collection of refuse, the position of pharmacists is clear. This kind of service is one of several to which ratepayers are entitled, and no camouflage should be allowed to obscure the fact. Again, the supercilious remark of a learned person about the "very respectable body of men who sometimes arrogate to themselves" the title of chemist may, in this year of grace, be allowed to fall into oblivion (after-dinner speeches are, in most cases, not regarded as evidence). It reminds me of a story of the butler of the late Sir William Gull, the consultant. Opening the door one day to a would-be patient, this functionary expressed regret that his employer was fully engaged that day, but added graciously, "There's a respectable practitioner over the way named Jenner, who may be able to attend to you." The reference, of course, being to Sir William Jenner, M.D.

### An Indication

of the growing interest of pharmacists in the beginnings of the Pharmaceutical Society is shown by the fact that lectures and addresses on this topic are being given in different parts of the country (pp. 639 and 641). It is worth recalling that at the meeting of the General Committee held on April 5, 1841, it was decided that the objects of the Society should be: "To benefit the public; and elevate the profession of pharmacy, by furnishing the means of proper instruction; to protect the collective and individual interests and privileges of all its members, in the event of any hostile attack in Parliament or otherwise; to establish a club for the relief of decayed or distressed members." Briefly summed up, these objects were education, protection, benevolence. In addition to studying the political beginnings of the Society, it would be well to study the economic conditions of the times as well; it was intimated by one of the lecturers that the payment for scripts in those days did not greatly differ from what can be obtained to-day, when the purchasing power of money is so much less. As I have before intimated, this price question is one of the most important subjects in pharmacy at the present time, and must be tackled seriously in the near future.



## New Companies and Company News

P.C. means Private Company and R.O. Registered Office

**KILMAINHAM PHARMACY, LTD. (P.C.).**—Registered in Dublin. Capital £500. Objects: To carry on the business of chemists and druggists, etc. Brian Doyle, 11 South Circular Road, Dublin, director.

**THOMAS H. MASON & SONS, LTD. (P.C.).**—Registered in Dublin. Capital £4,000. Objects: To carry on the business of general opticians, photographers, laboratory furnishers, etc. The first directors are not named.

**SURGICAL APPLIANCE CO., LTD. (P.C.).**—Capital £2,000. Objects: To carry on the business of manufacturers of surgical and rubber appliances, drugs, patent medicines, etc. R.O.: Manor Works, Manor Road, Twickenham.

**THE BUREAU OF ANALYSED SAMPLES, LTD. (P.C.).**—Capital £2,500. Objects: To acquire the business of preparing chemical standards carried on by Ridsdale & Co. at 3 Wilson Street, Middlesbrough, as the British Chemical Standards Movement.

**K. BARR MEDIPHEAT CO., LTD. (P.C.).**—Registered in Edinburgh. Capital £500. Objects: To carry on the business of manufacturers of peat preparations for medicinal and toilet purposes, etc. R.O.: 97 West Regent Street, Glasgow.

**KAMLOK CAPS, LTD. (P.C.).**—Capital £1,000. Objects: To adopt an agreement with Thos. F. Evans and to carry on the business of manufacturers of and dealers in devices for enabling collapsible tubes and other containers for pastes, ointments, greases, liquids, powders, to be closed, etc. R.O.: 137 Shields Road, Newcastle-on-Tyne.

**UNION RUBBER CO., LTD. (P.C.).**—Capital £100,000. Objects: To carry on the business of producers and manufacturers of and dealers in rubber, vegetable gums and gums of all kinds, chemicals and articles of all kinds, including proprietary articles, etc. The first directors are to be appointed by the subscribers. Solicitors: Slaughter & May, 18 Austin Friars, E.C.

**SHERWOOD INDUSTRIES, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of manufacturers of and dealers in candles, nightlights and other articles for lighting and heating purposes, soaps and other articles for toilet, cleaning or polishing purposes, lubricating and other oils, etc. The seven directors are all directors of Prices Patent Candle Co., Ltd. R.O.: Belmont Works, Battersea, S.W.11.

### Bankruptcy Report

**Re Henry Thomas Hart-Spratt,** Moira Chambers, Ironmonger Lane, E.C., company director. The public examination was held on November 28 at the London Bankruptcy Court. The accounts showed total liabilities £16,800 (ranking, £16,257) and assets £1,011. Replying to the Official Receiver, the debtor said that this was his fifth bankruptcy, and as he had not been discharged from either set of proceedings £14,102 of the present debts represented the unsatisfied balance of debts under the previous bankruptcies. In January 1934 he and another person arranged for the procuring of shops and sites for the flotation of a company known as Amalgamated Chemists, Limited. The company was incorporated on March 19, 1934, with a nominal capital of £2,500. Following upon the appointment of a receiver in September, 1934, his services were terminated. In May 1934 he became interested in the amalgamation of fifty chemists' shops with the view to the flotation of a company with a capital of £200,000. His share of the profits was agreed at £3,000. Upon the company being promoted in December last, with a capital of £100,000, his profits were reduced to £1,500 plus expenses. His claim was repudiated by the creditors and he had not received anything in respect of it. In September, 1934, with £40 savings, he commenced trading as "H. T. Hart" as a general agent in chemists' supplies. The business was not successful, and he discontinued trading. The debtor attributed his insolvency to the reduction and loss of his promotion profits and inability to complete negotiations for the flotation of another company. He was now serving a sentence of twelve months' imprisonment for obtaining credit by fraud. The examination was concluded.

### Stock Exchange Prices

£1 shares unless otherwise stated	Dec. 31, 1934	Oct. 31, 1935	Nov. 29, 1935
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	21 3	24 0	23 9
Amalg. Dental Co., 8% Prefd. Ord.	23 9	25 6	26 3
" " Deferred £1	8 3	8 0	9 6
Aspro, Ltd.	—	17 0	20 0
Ayrton Saunders & Co. 7½% Pref.	19 6	21 3	25 0
Beechams Pills, Deferred 5s. shares	26 6	35 3	35 0
Benger's Food, Ord.	43 6	39 6	40 6
Benzo & By Products cum. part. Pref.	2 6	1 3	1 6
Berger (Lewis) & Sons, Ord.	41 3	64 0	65 0
Blundell Spence & Co.	19 0	16 3	17 6
Boake (A.), Roberts & Co., 5% Pref.	21 3	20 0	20 0
Boots Pure Drug, Ord. 5s. shares	46 0	48 6	48 9
Boots Pure Drug, 7% "A" Prefd. Ord.	31 0	32 3	32 3
Boots Cash Chemists (S.), 6% "A" Pref.	28 9	28 9	29 0
Borax Consol., Dfd. Ord.	11 6	17 6	17 6
Bovril, Ord.	29 9	24 6	26 0
" " Dfd.	17 9	18 3	18 0
British Cvanides, Ord., 2s. shares	3 1½	3 1½	3 0
British Drug Houses, The, Ord.	19 3	18 9	18 9
British Glues & Chemicals, 4s. Ord.	4 0	6 7½	7 10½
British Oil and Cake Mills, Prefd. Ord.	45 0	47 0	49 0
British Oxygen, Ord.	84 0	110 0	110 6
British Photo. Indus., 6% Cum. Pref.	3 0	2 6	3 0
Burt, Boulton & Haywood, Ord.	22 0	18 9	19 9
Bush (W. J.) & Co., 5% Pref. £5	105 0	108 9	110 0
Callard, Stewart & Watt, Ord.	5 6	2 6	3 0
Cooper, McDougall & Robertson, Ord.	35 0	31 3	36 3
Crosfield (Joseph) & Sons, 6½% Pref.	30 0	30 0	31 9
Dubarry Perfumery, Ord. 1s.	6 3	6 1½	5 9
" " 7½% Pref.	27 6	27 6	26 6
Eastman Kodak Com. (no nom. value)	\$113½	\$168	\$162
Eno Propriet'y, Ord. 5s.	12 0	9 9	9 9
Evans Sons Lescher & Webb, Ord. 6s. 8d. shares	2 9	4 3	4 3
" " 6% cum. part. Pref.	5 9	7 6	7 6
Field (J. C. & J.), Ord.	26 6	23 9	25 0
Galloway (P. H.), Ord. 2s.	3 9	3 3	3 6
" " 7½% Cum. Pref.	27 0	27 0	27 0
Genatosan, Ltd., 1s.	5 6	6 10½	7 3
Gossage (William), 6½% Pref.	30 6	28 6	29 6
Griffiths Hughes (Kruschen) Ord.	49 9	56 3	56 9
Grout & Co., Ord.	19 3	24 0	26 3
Hodders, Ord. 1s.	0 6	0 6	0 6
Ilford, Ltd., Ord.	27 6	23 9	24 9
" " 6% Pref.	25 0	25 0	26 3
Imperial Chemical, 7% Pref.	34 1½	33 0	33 6
" " Ord.	37 3	36 0	37 0
" " Dfd. 10s.	9 7½	8 7½	8 10½
Intern. Sponge Importers, 6% Pref	16 9	7 6	8 9
Kent (G. B.) & Sons, 5½% Pref.	3 9	2 9	2 6
Knight (John), 25% Prefd. Ord.	95 0	97 6	97 6
Laporte (B.) & Co., Ltd., Ord.	104 6	117 6	117 6
Lever Bros., Ltd., 7% Pref.	32 0	31 9	32 0
" " 8% Pref.	33 0	31 9	33 3
" " 20% Prefd. Ord. £1	75 6	78 0	78 6
Lewis & Burrows, Ord.	27 6	22 6	21 3
" " 6% Pref.	22 6	22 6	21 0
Liebig's Ext. of Meat, Ord. £5	£11½	£12½	£14½
Macleans 6% Red. Pref.	—	21 0	21 3
Mellin's Food, 6% Pref.	1 3	0 10½	1 3
Nathan, J. (Glaxo), 7% Pref.	25 6	23 6	23 6
" " 8% Prefd. 10s.	12 6	13 6	15 0
" " Ord. 1s.	2 6	3 6	4 3
Pears (A. & F.), 5% Deb. £100	£110	£111	£112
Reckitt & Sons, Ord.	115 3	109 6	116 3
Salt Union, Ord.	38 9	40 9	42 6
Sangers, Ord. 5s.	22 0	23 6	23 6
"Sanitas," The, Co., 9% Pref.	31 9	32 6	32 0
Sanitas Trust, 10% partic. Pref.	29 0	31 0	30 9
Smith (Stephen) & Co., Ord. 5s.	12 9	10 9	12 0
Spratt's Patent, Ord.	71 9	71 9	72 6
Stevenson & Howell, 6½% Cum. Pref.	26 3	26 3	26 3
United Glass Bottle Man., Ord.	—	40 6	44 3
Veno Drug Co., 8% Pref.	27 9	26 3	28 0
Virol, Ltd., Ord.	26 3	28 9	28 9
" " 7% Pref.	26 0	25 7½	25 6
White (A. J.), Ltd., Ord. 10s.	22 0	20 0	20 4½
White (Timothy) & Taylors, 7½% Pref.	31 0	27 3	30 3
" " Ord. 5s.	21 9	21 9	23 0
Woodlands Chemists, Ord. 5s.	—	3 9	4 0
Wright, Layman & Umney (1932), 7% cum. Pref.	25 0	23 0	22 6
Yorkshire Indigo & Col. Dyers, 5s. Ord.	0 9	0 3	0 3



# Ulster Retail Drug Trade Association

## Annual Meeting

THE annual meeting of the Ulster Retail Drug Trade Association was held on November 27 in the Grand Central Hotel, Belfast, the outgoing president (Mr. James Dundee) in the chair.

THE PRESIDENT extended a cordial welcome to Mr. George P. Forrester. He also welcomed Mr. W. S. Taylor, president of the Pharmaceutical Society of Northern Ireland, adding that he took his presence as a special compliment.

THE SECRETARY announced the receipt of letters of apology from Messrs. James Dale (Londonderry), S. S. Badger (Magherafelt), James McDowell and W. C. Tate. Mr. Dale suggested that the annual meeting should be held occasionally at a different time and place.

### ANNUAL REPORT

The report of the Executive, submitted by the secretary, included the following passages:—

Your Committee is again pleased to report that the affairs and finances of the Association are in a most satisfactory condition. The membership now totals 362, showing a net increase of 37. In June last your Committee engaged Mr. Geo. Black, Ph.C., to act as temporary membership canvassing organiser, and the increase in membership is largely due to his efforts. . . .

The N.I.I. dispensing is working smoothly, and very satisfactory service appears to have been given by the dispensing chemists, as no intimation to the contrary has been brought to the notice of your Committee by the department concerned during the past year. Your Committee again took the opportunity to urge upon the Government the restoration of the remaining balance of the 6.3 economy cut, and it is gratifying to record that the "cut" is now fully restored.

For some months past a subcommittee has been very actively engaged investigating the possibility of having the sale of patent medicines and proprietary articles of a medicinal nature confined exclusively to chemists and druggists. As a preliminary every licensed chemist in N.I. (irrespective of membership of the U.R.D.I.A.) was circulated requesting their support, particularly in the matter of newly introduced lines, and over 80 per cent. replied promising full support. Quite a number of manufacturing and distributing firms have been approached and in many instances promises of support have been received. It is the intention of the subcommittee to compile a list of such firms to be issued to the trade. At the moment important negotiations on similar lines are being instituted by the N.P.U., and it is considered advisable to postpone any immediate action pending the result of these negotiations, which, if successful, will have most far-reaching and beneficial results.

A design . . . has been registered for the exclusive use of the members of the Association. It is intended to utilise the design in any scheme of advertisement inaugurated by the Association or any member thereof, and the main idea is to convey to the public that quality, moderate price and good service is associated with the design. The campaign against price cutting inaugurated by the P.A.T.A. is being steadily pursued. While beneficial results have been achieved, the greatest possible difficulty is being experienced in the efforts to ascertain, and close up, the source of supplies to those concerns still openly cutting prices. . . . Your Committee, however, regrets to report that, from information received, there have been instances where the coded prices of prescriptions have been cut. . . .

A proposal that the status of the Association be changed by the adoption of trade union principles will be submitted at the annual general meeting for consideration and further instructions. Following suggestions made at the last annual general meeting that a change in the title of the Association would be desirable, a notice of motion embodying these suggestions will also be submitted for consideration.

THE PRESIDENT, in moving the adoption of the report, said they could not report a big increase in turnover, in spite of the reports of improving trade. That was due to so many extra points of distribution opening up, and until they got protection by way of legislation for the curtailment of the retail business, he did not think they could have a big increase in trade. It was satisfactory to see that the membership had increased by thirty-seven, which left about 120 men in business outside the Association who ought to be in it. The Committee had done hard work during the year, and the complaints had not been so numerous as in previous years. The question of the guilds had been entirely eliminated, and he did not think any of their traders were now giving 10 per cent. to the buying

clubs. The P.A.T.A. was still carrying on, and was improving in its system with the amount of pressure they had put on. The Association would have to take up vigorously the question of prescription-pricing and the condition to which coding prescriptions had sunk. Something would have to be done in the way of getting each one to sign up the coding business again. That had been overlooked at the time of the amalgamation with the N.I.P.A. The trade union question and the new sign would come up later on. The welfare scheme had been before them during the year, but if they could not get absolute loyalty to that scheme they could not expect the support of the manufacturers. Mr. Dundee concluded by expressing appreciation of the secretary's services during the year.

Mr. JOHN MCGREGOR (president-elect) seconded the motion. (Details of Mr. McGregor's career were given in the *C. & D.*, 1934, II, 719.)

Mr. JOHN ADAMS thought that the Committee should take up the coding of prescriptions during the coming season. It had not been done effectively in recent years. It was rather a disgrace to the trade to find that out of eight test prescriptions six were cut.

Mr. H. JOHNSTON urged the appointment of a committee to call on more members to join the Association.

THE PRESIDENT said it was difficult to get chemists prepared to go round the different towns. The report was adopted.

### THE SALE OF PROPRIETARY MEDICINES

THE SECRETARY said that a subcommittee had been appointed earlier in the year to increase the efficiency of the Association, and among other things suggested was the restriction of the sale of patent medicines to chemists. They decided first of all to concentrate on newly introduced preparations, and he was instructed to get in touch with every chemist in Northern Ireland. He did so, and got 80 per cent. of replies, which was an unprecedented occurrence in connection with the trade in Northern Ireland. They then wrote to the manufacturers, who, they thought, would look on the matter with the greatest amount of sympathy, and so far had got fourteen who were prepared to support them. They had also to take into consideration the wholesale distributors, and they interviewed two leading firms in Belfast who said they would do their utmost to help them. The idea was to have an agreement between the manufacturer and the wholesale distributor stipulating that the article should be sold only by chemists. The wholesalers dealt largely with grocers, who might say they would cancel their grocery orders if they did not get the other articles they had asked for. Then it transpired that the Chemists' Friends movement was on foot across the Channel, and they decided to await the outcome of the movement.

Mr. FORRESTER addressed the meeting on the invitation of the president, dealing with matters of topical interest.

THE PRESIDENT moved a vote of thanks to Mr. Forrester, which was seconded by Mr. J. C. CULBERT and passed unanimously.

### FINANCIAL STATEMENT

Mr. W. J. RANKIN submitted the financial statement showing a balance in hand of £75. The capital account showed a balance in hand of £759. The expenditure of the year included a donation of £100 to the British Pharmaceutical Conference, but Mr. Rankin understood there was a possibility of getting part of that back.



Mr. J. McGregor



MR. J. MACAULAY said the accounts had been admirably kept, and their thanks were due to Mr. Rankin for his work in getting in subscriptions. He moved the adoption of the statement.

MR. ABERNETHY seconded the motion, which was passed unanimously.

#### THE NEW COMMITTEE

Seven of the eight retiring members offered themselves for re-election on the Committee as follows:—Messrs. C. Abernethy, J. Adams, J. C. Culbert, S. H. Forrest, T. A. Gibson, P. R. W. Shinner and A. Steede, and they were re-elected on the motion of MR. W. S. TAYLOR, seconded by MR. MACAULAY. Mr. J. Taggart did not offer himself for re-election, and the co-option of his successor was left to the Committee.

#### TRADE UNION PROPOSED

The next item on the agenda was consideration of the proposal to alter the constitution of the Association to that of a trade union.

THE PRESIDENT said the Committee had full authority to deal with the matter, but they felt they should leave it to the annual meeting.

THE SECRETARY said he gathered the change was a sort of legacy from the amalgamation, when it was probably suggested that the Association should be incorporated. As they stood at the present time they had no entity. The matter of incorporation was referred to the Executive last March. At present each member was individually liable for any debt of the Association. That was a consideration, if not a very great one, but the advantages of incorporation were such that the liability of members would be restricted to, say, 1s. each. He did not think, however, that the Association was likely to go in for trading, or would embark on any policy that would lead to an action for damages. An association could not be incorporated that had restrictions on its rules, as they had in the matter of the price list. That prevented them from being incorporated, and, short of scrapping nearly all their rules, the alternative was to register as a trade union. All that that meeting could do, if they thought change desirable, was to empower the Committee to apply to the Registrar of Trade Unions to see if they could be so registered, and, if so, to proceed with the matter. No action in tort could lie against a trade union or its officials. The chief advantage was the limitation of liability.

MR. TAYLOR did not see they would get any enormous advantage from becoming a union, and they would have to do without their price list. If that were done away, the whole thing would get into a state of chaos again. Mr. Taylor mentioned that 90 per cent. of the prescriptions from Belfast were not coded.

THE SECRETARY said that incorporated they could not issue a price list. As a trade union they could.

MR. SHINNER said that some of the members thought they were not under obligation to code. If they decided to code, how were they to deal with the non-member or recalcitrant member who took advantage of the coding and cut prices?

MR. CULBERT said they had gone too far to be incorporated. To become a trade union they would have to go further. The resolution did not commit them to a union. It was well worth exploring the possibilities of a trade union to get the immunity that had been mentioned.

THE SECRETARY: If we were a trade union to-morrow, what could we do to enforce the objects of the Association?

MR. CULBERT replied that with the present rules there would not be much advantage, but with a trade union, rules could be framed that could be carried out.

MR. FERGUSON asked if they could get no other name than trade union. He said the big idea behind it all was to bring those not playing the game up to scratch. There were not many persons present to decide that big question.

In reply to a question, THE PRESIDENT said doctors had trade unions. If they could do so, why could not the chemists? He suggested that they empower the Committee to decide on whether or not they should go for a trade union or a limited company.

THE SECRETARY said they would have to get a mandate from a general meeting before they could make application to be registered.

MR. ADAMS said if they had the effect of a trade union behind them they could carry out schemes to help the members. He moved that the constitution of the Association be altered to a trade union.

MR. SHINNER seconded, and the resolution was passed.

THE PRESIDENT moved:—

"That the name of the Association be changed to the 'Ulster Chemists' Association,' or such other name as may be thought fit, should it be deemed advisable that such change should be made."

He said that the resolution required to be taken up owing to the amalgamation with the N.I.P.A. When the U.R.D.T.A. title was given to the body they had half the members registered druggists. There were very few druggists in business now. The name now proposed was easier to handle.

MR. ADAMS seconded the resolution, which was supported by MR. MCGREGOR and agreed to.

#### RULE 7 ALTERED

MR. MCGREGOR proposed an alteration to Rule 7, the effect of which was that retiring members of Committee must in future notify the secretary in writing if they intend to come forward again.

MR. CULBERT seconded the resolution.

THE SECRETARY said the change was desirable, inasmuch as hitherto a member could give notice by telephone at the last minute. The resolution was passed.

#### A REGISTERED DESIGN

MR. SHINNER drew attention to the adoption of a registered design by the Association. He thought if they had combined advertising it might bring back some of the trade that was being filched from them. He thought that the letter "R" would make an excellent design, and while it would not be registered of itself it could be registered with some other device such as a six-link chain—one for each of the Six Counties. The design had been registered, and could be used by any member of the Association with the Association's permission. An advertising campaign should be started using the design.

THE PRESIDENT thanked Mr. Shinner for the amount of time he had given to the matter. Any member of the Association, he said, would get the loan of the blocks of the design.

#### SMALL PACKAGES OF ASPIRIN

THE PRESIDENT introduced a discussion on the price of aspirin, which, he said, was being sold at 6d. for twenty-five tablets.

MR. MCGREGOR and MR. T. GIBSON spoke against price reduction.

MR. R. LINEHAN said he sold aspirin at 8d. for twenty-five, but a number round him sold at 6d., as did the Co-operative Society.

MR. TAYLOR suggested getting the wholesalers to give eighteen tablets instead of twenty-five.

It was decided to give the Committee authority to deal with the matter with 6d. as a basis, a show of hands being in favour of a sixpenny "ordinary" quality.

#### SHOP HOURS

THE PRESIDENT introduced the subject of the proposed Shop Hours Amendment Act. Their subcommittee, by a majority, recommended 8 p.m. closing. Conditions of shops and services were involved. They did not agree on the question of the closed door after 8 p.m. The grocers wanted to close every shop at the same time as themselves.

MR. FERGUSON said pharmacies in Ulster should recognise Sunday the same as other businesses, especially at the seaside towns.

MR. FORREST said that in the seaside towns they should get consideration in the summer months.

MR. MCGREGOR moved that they recommend to the Chamber of Trade that 8 p.m. be the closing hour. MR. GIBSON seconded, and after further discussion the recommendation was adopted.

#### VOTES OF THANKS

MR. TAYLOR moved a vote of thanks to the Committee for its work during the year, and this was passed by acclamation.

A hearty vote of thanks was also accorded to Mr. Dundee for his splendid services in the chair.

#### Election of President and Vice-President

At the monthly meeting of the Executive Committee of the Association, on December 3, Mr. John McGregor, senior vice-president, was unanimously elected president for the ensuing year. Mr. Alexander Steede was unanimously chosen for the post of vice-president.



# National Pharmaceutical Union

## Executive Meetings

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on November 26, Mr. S. J. Stearn in the chair.

### NATIONAL HEALTH INSURANCE

The Executive received a report of the Central N.H.I. Committee regarding the position in respect of the new contract. A deputation had laid the decisions of the Conference before the Ministry of Health. They reported that the main argument had turned upon the conditions regarding the payment of preceding deficits out of surpluses, but it had not been found possible to obtain more than a general undertaking regarding the deficits occurring in years other than the immediately preceding year. The condition giving the chemists a unilateral right to terminate the contract at the end of three years had not been accepted. The Ministry had indicated that of the chemists were to have this right to terminate the contract, the Ministry must also have a similar right.

A letter had since been received stating that the Minister agreed that if in any year there was a surplus in the chemists' central fund (constituted on the basis agreed), equivalent to not less than one-half per cent. of the certified dispensing fees, such surplus would be used *pro tanto* to make good any deficit in the amounts payable in respect of chemists' accounts for the immediately preceding year in the period of agreement, provided the deficit was not less than one-half per cent. of the certified dispensing fees. Any smaller surpluses, or any surplus not used for making good a deficit as aforesaid, would be carried forward to the chemists' fund for the succeeding year in the period of agreement. In the event of a deficit having occurred in a year prior to that immediately preceding the year in which the surplus occurred, the Minister would give careful consideration to any representations which the Union made for the application of the surplus. The Minister would also be prepared to consider representations regarding any abnormal deficit, and agreed that expenditure which could be reasonably avoided would not be incurred, and that the arrangements for controlling excessive prescribing would continue to be operated to the fullest possible extent. The Executive resolved that the terms for the new contract and the conditions offered in the Ministry's letter be accepted.

The Ministry had indicated that on account of the steady increase of expenditure on the drug fund during the current year, it will be necessary to increase the amount withheld from 5 per cent. to 10 per cent. of the fees during the remaining three months of the year. The Executive accepted the suggestion of the Ministry in regard to the payment of the accounts for the remainder of the year.

### BRANCH CONFERENCE

It was decided to hold a Conference of the representatives from the branches on January 29, 1936, and that the Chemists' Friends scheme and certain alterations in the rules recommended by the rules committee should be placed upon the agenda for discussion by the Conference.

### CHEMISTS' FRIENDS SCHEME

The Executive received a report from the Marketing and Trade Prices Committee regarding the satisfactory progress of the scheme. Genatosan, Ltd., had placed their articles on the C.F. List, with the exception of Sanatogen, which, being a "food," was not eligible to be included in the List. Whites Laboratories, Ltd., had placed Feenamint on the C.F. List. Therapeutic Products, Ltd., had put Kalzana on the List, and the application from A. L. Simpkins & Co., Ltd., was also accepted for chemists' pharmaceutical confectionery, on the condition that sales of all their confectionery are restricted to chemists. Other applications were considered, and several firms had intimated their intention of coming into the scheme early in the New Year. One inquiry had raised the question

whether veterinary preparations would be accepted for inclusion in the C.F. List, but the Executive decided that such preparations could not be accepted at present. It was decided to call, at an early date, a conference of manufacturers already on the List to discuss details for the working of the scheme.

### CLEARING HOUSE

The Executive received a report upon the position of the clearing house. It was definitely decided that it was financially impossible to continue the "open" clearance, but the Executive gave authority for a number of other firms to be included in the "closed" clearance, and the alteration of the date of this clearance from the 10th to the 12th of the month in order to give more time for chemists to receive their statements.

### C.D.A. Matters

The secretary reported that there were ten cases outstanding since the last meeting, of which three had been settled as follows:—Car damaged by paraffin supplied for petrol; claim settled by payment of £1 9s. Car damaged by cycling errand-boy; claim settled for £1 15s. Cycle and clothing damaged by cycling errand-boy; claim settled for 14s.

Eleven new cases had arisen during the month; the following settlements had been effected in six of these:—Injuries caused by acetic acid applied to warts; claim settled for £5 5s. Injuries caused by fall in shop entrance; claim settled for £10. Injuries caused by falling sunblind; claim settled for £6 1s. Damage to car caused by cycling errand-boy (two cases); claims settled for £1 10s. and £2 10s. respectively. Spectacles broken by fall on floor; claim settled for £1 5s.

## General Medical Council

THE hundred and forty-second session of the General Medical Council opened at 44 Hallam Street, London, W.1, on November 26, the present (Sir Norman Walker) in the chair. The proceedings (which, it is understood, created a record for length) commenced with the usual routine business, leading to the

### CHAIRMAN'S ADDRESS

After the usual personal references, Sir Norman Walker announced the preparation of a Bill to amend the law relating to (1) the election of direct representatives, (2) the recognition of diplomas in public health, and (3) the publication of the British Pharmacopoeia. A considerable part of the address was devoted to a survey of medical education and legislation in this country. The president incidentally disclosed the fact that he had made a "fairly complete survey" of the seventy-one volumes containing the Council's minutes. In a concluding passage he expressed the view that the elasticity of the Council's system of regulating medical education is one of its strongest characteristics.

### DENTAL BUSINESS

Following reports from the Dental Board, it was ordered that the names of Aaron Leslie Barnett, 5 Robert Street, Londonderry, and William Ainslie Duncan, 5 Myrtle Street, Glasgow, be erased from the Dentists' Register.

At a later stage the president announced that the registrar of the Dental Board had been directed to restore to the Dentists Register the names of James Alexander Randolph Allison and Arthur Leonard Heath.

An unusual item was the receipt of a report from the Dental Education and Examination Committee recommending the registration of sixty-one foreign dentists under the Act of 1878, and the rejection of an approximately equal number of applications for registration from other foreign dentists. The report was adopted.

(To be continued.)

THE HOME PAGE AGAIN.—Another bright thought from a Woman's Page: "Small children's garments frequently become stained with milk and castor oil." Complaints are rife among the Younger Set that this Drink More Castor Oil movement is being rather overdone.—"Peter Simple" in "The Morning Post."



# Pharmaceutical Society of Great Britain

## Council Meeting

A FEATURE of the December meeting of the Pharmaceutical Society, held at 17 Bloomsbury Square, London, W.C.1, on December 4, was the presentation to Professor A. Smithells of the Harrison medal. The president (Mr. E. Saville Peck), in making the presentation, referred to the distinctions which had been obtained by Professor Smithells, and spoke especially of his close association with Colonel Harrison in anti-gas work for the Army during the great war. Professor Smithells, returning thanks for the medal, expressed his regret that he had been unable to deliver his lecture. Without warning, he explained, he was put out of action by an affection of the throat. He had been associated with Colonel Harrison in efforts to defend our troops against poison gases. He recalled the great trials to which they were all put by the absence from those who flocked to the help of the country of the most elementary knowledge of chemical science, which made the difference between life and death. It was one of the greatest honours of his life to have been asked to give the Harrison lecture and to have received the medal from the Society. Other items of interest will be found under the headings "Public Medical Services" and "British Pharmaceutical Conference."

### TUESDAY'S PROCEEDINGS

Among the business transacted by the Council on December 3 were the following items:—

The president reported on the interview he had had with a chemist convicted under the Dangerous Drugs Act, the withdrawal of whose authorisation was under consideration by the Home Secretary. After hearing the president's report, the Council agreed to recommend to the Home Secretary that the authorisation should not be withdrawn, but that a severe caution should be administered.

The secretary reported correspondence with the Ministry of Agriculture and Fisheries concerning the possibility of adding extract of malt with halibut-liver oil to the British Pharmaceutical Codex. It was understood that the addition of halibut-liver oil to the British Pharmacopoeia was under consideration, and a decision upon the suggestion from the Ministry was deferred pending information as to the decision of the Pharmacopoeia Commission.

A report was received from the Committee on Registration and Inspection of Premises containing a draft of instructions to inspectors. These were discussed, amended in certain particulars, and provisionally approved. The Committee was authorised to prepare a short list of applicants for consideration by the Council.

### DEATHS

THE PRESIDENT made sympathetic reference to the deaths of Dr. J. Macdonald Brown and Mr. J. E. Lockyer.

The Council approved of the suggestion that letters of sympathy should be sent to the relatives in each case.

### PERSONAL NOTES

Apologies for absence from Mr. Dick and Mr. Beardsley were intimated.

THE PRESIDENT mentioned that he had sent a letter of congratulation to Mr. E. Longhurst, who had reached an advanced age, and he had also congratulated Mr. W. W. Wakefield, who had been elected M.P. for Swindon and was a life member of the Society.

### REGISTRATION ITEMS

One person was elected a student-associate. The Council decided that six persons should be restored to the Register, and approved of the restoration of seven others, whose names had only been removed this year. The removal from the Register of one name was authorised. The registrar reported that fifty-four persons had been registered as apprentices or students.

### WRITTEN EXAMINATIONS

Invigilators were appointed for written examinations for the ensuing year.

### CORRESPONDENCE

A letter was read from the Pharmaceutical Association of Australia and New Zealand intimating their desire to provide an Australian memorial to the late Professor Greenish. They suggested that the memorial should take the form of a clock in Australian woods.

THE PRESIDENT expressed gratification at the offer.

MR. MELHUSH added his tribute of appreciation of the offer.

The British Ambassador in Peking wrote enclosing an extract summarising the conditions under which foreign medical practitioners and pharmacists might practice in China.

### PUBLIC MEDICAL SERVICES

The report of the Organisation Committee stated that last March a letter was sent to every branch enclosing a memorandum on public medical services and offering a speaker on the subject and any assistance that headquarters could give to secure for pharmacists the dispensing of medicines under these services. Branches where no public medical service was in existence were asked to request the local division of the British Medical Association to give the branch an opportunity of offering the services of pharmacists to supply medicines in the event of a public medical service being set up in the district. Branches in which public medical services were already operating were requested to inform headquarters whether any steps had been taken to secure this work for pharmacists, and if so what was the result. Four branches applied for and were supplied with a speaker. Of the twenty-seven branch areas where it was known that public medical services were being operated without the participation of pharmacists, twenty-two have not replied, either to the initial letter or to a reminder which was sent out in September. In each of the remaining five areas an approach has been made to the committee of Service. In one area no reply was received from the committee; in the remainder negotiations were opened. In two areas the negotiations are still proceeding, in the other two they have fallen through, as mutually acceptable terms could not be arranged. So far as can be ascertained, there are at present four public medical services in England and two in Scotland in which the dispensing is done by pharmacists. The Committee wished to draw the Council's attention particularly to the fact that the secretaries of only five out of the twenty-seven branches in whose areas public medical services are in existence took the trouble to reply to either the initial letter or a reminder. The Committee deplored this apathy, as the co-operation of the branches was essential if progress towards obtaining the dispensing of medicines for the services was to be made. The Committee had instructed the secretary to write to the branches concerned expressing strong dissatisfaction with their failure to reply, and suggested that members of Council visiting the branches should draw attention to the matter.

MR. NEATHERCOAT said the efforts of the Committee to secure the co-operation of the local branches had not been as successful as had been hoped would be the case, and many of them did not take sufficient interest to get in touch with the promoters of schemes throughout the country. The Committee had not been able to get further support in the local areas for what had been done at headquarters in a movement which they felt would have been of advantage to pharmacists locally and done something for the national good as well.

### BENEVOLENT FUND COMMITTEE

The report of this Committee showed that seventeen applications had been considered and grants made ranging from £5 to £30. Several special contributions were acknowledged.

MR. ANTCLIFFE drew attention to the contribution from Cardiff (£40 5s.), and mentioned that the amount collected there since the scheme was introduced in 1911 was £904 15s.



The amounts had varied from £11 12s. per annum to £62 9s. Under the scheme each member had a box.

#### WAR AUXILIARY BENEVOLENT FUND

The report of the Committee of this Fund stated that four applications had been considered, and grants made ranged from £7 to £26.

#### FINANCE COMMITTEE

The financial statement showed that the receipts since the last meeting, including a balance of £64 8s. 4d., amounted to £5,979 1s. 7d., comprising the following items:—Retention fees, £40 3s. 3d.; premises fees, £2,384 11s.; subscriptions, £3 3s.; College—School of Pharmacy, £139; College—Pharmacological Laboratories, £197 8s.; registration fees, £155 8s.; restoration fees, £11 0s. 6d.; examination fees, £338 2s.; penalties and expenses, £47 4s.; interest on investments, £91 10s. 1d.; rentals, £235; "Pharmaceutical Journal," £1,555 13s. 1d.; Pharmaceutical Press, £413 0s. 8d.; Quarterly Journal, £3 10s.; F.S.S.U. contributions, £19 16s. 3d.; F.S.S.U. policy surrender value and transfers, £277 4s. 3d.; S.S.S.S. refund, £1 4s.; sale of library books, 14s. 2d.; telephone refunds, £1 1s. Payments ordered at the last meeting amounted to £8,775 3s. 6d., leaving an adverse balance of £2,796 1s. 11d.

The balances on the other accounts were:—Benevolent Fund (current account), £185 13s. 5d.; Benevolent Fund (donation account), £27 7s. 3d.; War Auxiliary Benevolent Fund, £83 0s. 9d.; Hills Orphan Fund, £39 3s. 1d.; Orphan Fund, £38 0s. 9d. Accounts amounting to £10,905 7s. 10d. were passed for payment, and the action of the secretary in making payments amounting to £1,507 8s. 7½d. was approved.

#### BRITISH PHARMACEUTICAL CONFERENCE

The report of the Conference Committee included the following paragraphs:—

A motion to be submitted by a branch must have been approved by a general meeting of the branch and must reach the secretary of the Society not later than January 23 for the Conference to be held in the same year.

At their meeting in February the Council will review the list of motions received and may instruct the secretary to delete from the list any motions that are in their opinion trivial, irrelevant or obscure. A copy of the list, with the additions of any motions to be submitted by the Council, will then be sent to each branch.

Branches may submit amendments to the motions, and such amendments, approved by a general meeting of the branch, must reach the secretary of the Society not later than March 23.

At their April meeting, the Council will review the list of amendments received and may instruct the secretary to delete from the list any amendments that in their opinion are trivial, irrelevant or obscure, or have a negative effect. A list of the motions and amendments will then be sent to each branch.

Except so far as, prior to the meeting, the Council, or, at the time of the meeting, the chairman, may decide, no motion, other than a formal motion or amendment, shall be submitted to the meeting otherwise than in accordance with the above procedure.

#### LAW COMMITTEE

The report of the Law Committee, presented by Mr. Jack, stated that, in England and Wales, since the last report, 782 shops have been visited, of these, 465 were chemists' shops. In one chemist's shop no certificate was exhibited. At twelve of the remaining shops visited certain infringements of the Pharmacy Acts were reported. In Scotland, since the last report, fifty chemists' shops have been visited, in all of which certificates were exhibited.

#### Election of Annuitants

A meeting for the election of six annuitants of the Society was held at the Society's headquarters on December 4, the president in the chair. On the motion of Mr. Antcliffe, seconded by Mr. Noble, it was unanimously resolved that the following persons be elected:—Baker, W.; Garry, W. F.; Jobson, Sarah E.; Laurence, T. G.; Nichols, F. B.; Walker, Rosa B. C.

## A Study in Physiology

### Artificial and Natural Regulation of Body Function

[ABSTRACT]

As I see it, my pleasure and responsibility this evening is to show you that the change in the syllabus is an indication of the care with which your interests are studied by those who are responsible for directing your training. For you may be sure that no such extension would have been made unless the rapidly advancing tide of physiological knowledge threatens to overwhelm the careers of those who are ignorant of its existence, and thus demands a reorientation of views regarding the action of drugs and the treatment of disease. The short time at our disposal will not enable me to do anything more than indicate in a general manner the trend of events during the present century which has altered a great many of our conceptions of body functions.

In directing your attention to one particular field which is being ploughed by both pharmacologists and physiologists, I have selected for a number of reasons the endocrine organs, the secretions of which, known as hormones, not only exert a control over those body functions generally associated with physical fitness but also determine our mental outlook and our behaviour towards one another. Indeed, the increasingly wide recognition of the important part the internal secretions play in governing our actions, in moulding our characters and in the evaluation of the individual as a useful member of society, is one of the most fascinating chapters in the history of medical progress. Apart from the especial interest their active principles will have for you, was not the leading pioneer in this field of research one of the greatest leaders of thought within the history of Edinburgh University—Sir Edward Sharpey-Schafer?

Sharpey-Schafer, in conjunction with Oliver, made the discovery of the action of suprarenal extracts, but what is more important, he immediately recognised the supreme significance of his discovery and was able, forty years ago, to prophesy the position which endocrine therapy occupies to-day. The active principle of the suprarenal glands has long been isolated and synthesised, and is now easily obtainable and widely used in

THE opening meeting of the winter session of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on November 27. Mr. F. W. M. Bennett (chairman of the Executive) presided over a large audience.

MR. THOMAS WILSON (chairman of the Board of Examiners for Scotland) asked the chairman to accept the congratulations of his friends on his election to the office of chairman of the Executive. He was sure the successful candidates would like to express their appreciation of the kindly way in which he had presented these certificates and diplomas. It was very suggestive that many of these candidates could find work between the time they qualified and the time they received their certificates.

THE CHAIRMAN, in introducing Professor Ivan de Burgh Daly, M.A., M.D., B.Ch., said Professor Daly worthily sustained the tradition by which they had been favoured with an inaugural sessional address by members of the professoriate of the University of Edinburgh and other Scottish universities. Professor Daly was well known for his research work in physiology, and now occupied the Chair of Physiology in the University of Edinburgh, rendered famous by his distinguished predecessor, Sir Edward Sharpey-Schafer, who favoured them with an address in 1907. It was very appropriate that they should have such an address. He



PROFESSOR IVAN DE BURGH DALY

asked Professor Daly to address them on



medicine. Its best-known action, the production of a rise in blood pressure chiefly due to constriction of the smaller blood vessels, was first shown by Oliver and Schafer. I am going to attempt to demonstrate to you the contraction response to adrenaline of surviving blood vessels removed from the body. (Professor Daly gave details of this experiment, which he successfully performed.)

Schafer's work on the glands which cap the kidneys and also on the pituitary gland, the knowledge of whose manifold functions increases almost day by day, gave a tremendous impetus to research workers. Our insight into the workings of these little chemical factories has not as yet penetrated very far, yet the success of biochemists in the chemical identification and synthesis of their products has put into our hands the means whereby we can regulate function by artificial products which are chemically similar to those occurring naturally in the body. Let me mention some of the more important natural regulators of body mechanisms which are now available as artificial productions or extracts for administration in cases of hormone deficiency disease.

Adrenaline is secreted by the suprarenal medulla under conditions which give rise to an emotional or physical emergency. About 15 millionths of a gram are liberated every minute, but this may be increased tenfold. Injections into man raise the blood pressure and increase the heart rate; the bronchial tubes are dilated: it is frequently used in circulatory shock due to a variety of causes.

The thyroid secretion contains thyroxine (which contains 65 per cent. of iodine) as the active principle, stimulates metabolism and is essential for the mental and physical development of the young. Its secretion is controlled by another hormone elaborated by the pituitary gland. Under-action of the thyroid gland leads to myxoedema in the adult and cretinism in the young. Thyroxine administration generally cures both conditions.

The pituitary gland controls growth; depression of function of the anterior portion leading to dwarfism, over-action in the young to gigantism and in adults to acromegaly. Under-action also causes lack of development or atrophy of the sex organs and possibly excessive deposition of fat; over-action may lead to precocious sexual maturity and exaggerated development of the secondary sex characters. The posterior lobe of the pituitary gland governs the state of contraction of the blood vessels, exerts a control over the contractions of the uterus, especially during pregnancy, and it also has an anti-diuretic action. It has been claimed that the pituitary gland controls the secretions of all the other glands, and the diverse responsibilities which have been attributed to it are too numerous even to mention. The remaining members of the endocrine system, the gonads, the pancreas, the mucosa of the alimentary tract and the parathyroid glands all have specialised functions on which time will not permit us to dwell.

#### FUNCTIONAL INTEGRATION

It must not be thought that these glands work in watertight compartments. Their functional integration is necessary for the maintenance of the function of the body as a whole. A failure of any one gland may well lead to a disturbance of over- or under-action in the remainder, giving rise to a new level of stability. To some extent alterations in activity of the individual glands is always taking place to meet the conditions of changing environment; it is only when the glands themselves fail to respond appropriately that the physiological balance is upset and a pathological condition supervenes. The value of endocrine therapy is manifest, for we may on occasion be able to administer artificially the active principle of the hypoadrenal gland responsible for the error of balance, and thus restore normal functions. Unfortunately as yet the field is somewhat limited.

We have frequently used the terms "disease" and "diseased" or "pathological condition" in a general sense. They mean any alteration in the vital processes which govern the normal functions of the body. Current thought inclines towards the belief that all functions are regulated by chemical processes; we now know that the impulses which travel down our nerves and which throw into activity the muscles of the body, do so by producing at their terminations a chemical substance: a similar process is responsible for the acceleration of our heart rate during muscular exercise and its slowing or even temporary stoppage due to a severe shock or fright. It is highly probable

that mental activity is accompanied by the release of chemical substances in the brain tissue, and means for measuring mental processes has already been evolved. The migration of ions across the membranes of cerebral cells gives rise to electric potentials during mental activity—these can be recorded on a suitable galvanometer.

We see, then, that the trend in medical science is to remove the distinction between so-called artificial and natural remedies. Will the day arrive when all such distinction is removed? This is hardly to be expected in view of the fact that the armamentarium of the body is not fully adapted to repulse all types of invader. The defences against certain micro-organisms may be so weak that the exhibition of drugs quite unknown to the body is necessary before the invader can be overcome. Atebrin and quinine in malaria and salvarsan in syphilis are classical examples of such drugs. Moreover, of recent years it has been found advantageous to combat the effects of disease due to a micro-organism by the introduction of a second organism which itself is inimical to the host. Thus, general paralysis of the insane, a sequela of syphilis, has been successfully treated by giving the patient a mild attack of malaria. That adults are endowed with varying degrees of cerebral efficiency is to-day perhaps a problem for the psychologist and geneticists, to-morrow it may be one for the physiologists. We do know, however, that external conditions which affect our mental state may through nervous and hormonal channels have a profound influence on the body functions. The association of worry and digestive disturbances is well known, and there are grounds for the belief that "laugh and grow fat," or, as the Italians say, "laughter makes good blood," is based upon sound physiological principles. How far character is formed by endocrine balance I will not enter upon, but character formation is continuous throughout life, although the older we get the more difficult does it become to alter the mental processes of a lifetime. In this connection it is not inadvisable in considering one's career to determine to cultivate and develop a state of mind which you think will best enhance the chances of your progress in life.

Let me remind you of a problem which will be with you always, one which has a bearing on your life's interest, the knowledge of physiology you will have achieved and the responsibilities you will have to your profession and to the public. I refer to the great influence you will be able to exercise on the public in helping them to decide which advertised remedies are of real value and which are no more and no less than quack medicines. Your decision will be largely governed by the critical spirit in which you have conducted your studies. You owe it to yourselves that your knowledge of physiology should be sufficiently extensive—but specialised in certain directions—to enable you to reach a decision in the face of all advertisements, not excluding those in the heaviest print. A civilisation which loses its capacity to create and criticise, whether in art, literature or science, becomes intellectually paralysed—an individual under similar circumstances is an intellectual paralytic. Cultivate the critical spirit and devote your spare time to creative hobbies if you have the opportunity.

#### Vote of Thanks

PRINCIPAL SMAIL (Heriot-Watt College), in proposing a vote of thanks to the lecturer, said they had all received inspiration. That was a very important occasion. It marked, as had been pointed out, the beginning of a new phase when pharmaceutical students were expected to know something of physiology. In Edinburgh they had, after many years, secured the wedding of the two schools of pharmacy, and now in the Heriot-Watt College they had the former Duncan's School and the Heriot-Watt School working harmoniously together. He was glad that physiology came into the curriculum at this particular juncture.

PROFESSOR DRYERRE, in seconding, congratulated Professor Daly for his courage in undertaking the experiment they had just witnessed. He had no hesitation in saying that the pharmacists would be more fully equipped when they had a groundwork of physiology.

THE CHAIRMAN, in conveying the vote of thanks to Professor Daly, said he had a feeling that those of the older generation had been unfortunate in having to endure courses of study that were dry and uninteresting. If the subject of physiology was such as had been presented in Professor Daly's address, then he thought the student of to-day was singularly fortunate.

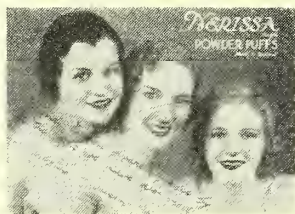


# Trade Notes

**POWDER PUFF SHOWCARD.**—Solport Brothers, Ltd., 184-192 Goswell Road, London, E.C.1, have recently produced six



new photographic showcards in connection with Nerissa powder puffs. These showcards present photographs, of well-known stage personalities, bearing a tribute to Nerissa puffs. The showcards are being distributed

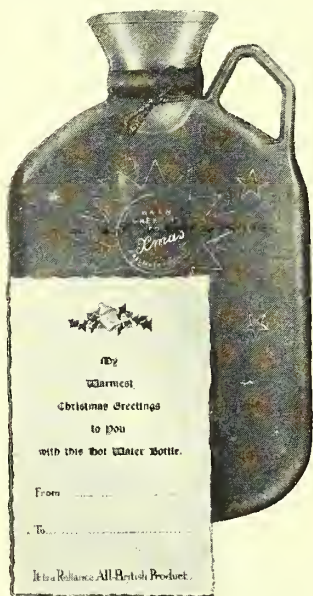


with all orders. The original signed photographs are on display in Messrs. Solport's showrooms.

**TEST ROOM EQUIPMENT.**—John Baird & Sons, 70 Mitchell Street, Glasgow, C.1, have recently issued a comprehensive illustrated catalogue relating to all types of instruments, etc., used in optical work. Copies may be obtained on application.

**IODINE BODY BELT.**—London Laboratories, Empire House, Finsbury Pavement, London, E.C.2, draw attention to the L.L.L. Iodine Body Belt, which they state is supported by national advertising. A special pre-Christmas bonus offer of thirteen to the dozen is made and particulars may be obtained from the makers.

**AN APPROPRIATE CHRISTMAS GIFT.**—The Reliance Rubber Co., Ltd., Cremorne Works, Lots Road, Chelsea, London, S.W.10, have introduced a Christmas hot-water bottle which carries the slogan "A Warm Greeting for Xmas." The bottle is packed in a decorative cardboard box and is issued with a greetings card. This is a type of gift which will, no doubt, commend itself to both senders and recipients. The bottle is described as a "Reliance Star" rubber hot-water bottle. The greetings card bears the words "My Warmest Christmas Greetings to You with this Hot Water Bottle."



**NORWEGIAN COD - LIVER OIL.**—We are informed by Freudentheil, Smith & Co., representing Brødr Aarsæther A/S of Aalesund, Norway, that all shipments of their Lofoten medicinal cod-liver oil are guaranteed to have a vitamin potency of at least 1,000 international units vitamin A and 100 international units vitamin D.

A certificate of guarantee is included with each shipment.

**BALKAN CRUDE DRUGS.**—Oskar Wieland, Dresden, importer and exporter of Balkan crude drugs is advertising in this issue arnica flowers and roots, belladonna roots and leaves, chamomiles, etc. Applications are invited for appointments as agents in the United Kingdom.

**VOCALZONE PASTILLES.**—Meggeson & Co., Ltd., New Church Street, Bermondsey, London, S.E.16, inform us that the small-size tins of vocalzone pastilles will be withdrawn as from December 15, and that the retail price of the large tins will be reduced.

**RODINE FOR RATS.**—Thomas Harley, Ltd., 55 South Methven Street, Perth, Scotland, have recently prepared new printed matter to promote the sales of Rodine rat poison. Chemists' names and addresses will be printed on circular, which can be used as an envelope stuffer.

**DR. HAIR'S ASTHMA CURE.**—B. W. Hair & Son, Ltd., Stanwell Moor, Staines, Middlesex, have added all Dr. Hair brand preparations to the P.A.T.A. list as from January 1, 1936. The asthma cure will be packed in larger-sized bottles at lower prices, and the opportunity has been taken to pack the medication in a new carton for display purposes. An advertising campaign will be undertaken early in the New Year.

**RUBBER MAT FOR CHEMISTS.**—Stephen Matthews & Co., Ltd., 19-21 Farringdon Street, London, E.C.4, are offering chemists a rubber mat, size 36 in. by 20 in. to place before the counter or at the door, on condition that an order for Curicones anti-rheumatic and anti-arthritis capsules is placed. Chemists who already stock Curicones are entitled now to this gift. Full details may be had on application.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(From "The Trade Marks Journal," November 20, 1935.)

- "PYRAVERON"; for pharmaceutical preparations (3). By E. Silten. Karlstrasse 20a, Berlin, N.W.7. 562,176.
- "NEWLANDS" on design of portrait of P. R. Newlands and facsimile signature ("Newlands" disclaimed); for medicinal chemicals (3). By Newlands Bros & Mumford, 141 Kensal Road, London, W.10. 563,804.
- "THE HEMSTONE"; for medicinal chemicals (3). By Garfield Carse, 7 Devonshire Street, London, W.1. 563,818.
- "TONOXLYN"; for medicinal chemicals (3). By Oxo, Ltd., Thames House, Queen Street Place, London, E.C.4. 563,871. (Associated.)
- "SENSITY"; for all goods (8). By Formo Products, Ltd., 153 Mason's Hill, Bromley, Kent. 559,454.
- "BLENDUX" and "OMBRUX"; for scientific instruments, etc. (8). By E. Jacobsen, Koppenicker Strasse 71, Berlin, S.O. 16. 563,558/559.
- "CUDLER"; for surgical instruments, etc. (11). By Hinders, Ltd., 174/192 Estcourt Road, London, S.W.6. 563,680.
- "PERFUME TIME" on upright design incorporating numerals from 1 to 12; for glass scent sprayers and containers (15). By E. E. Reinhold, Ltd., Finsbury Court, Finsbury Pavement, London, E.C.2. 558,521.
- "MILOKO"; for a combination of milk and cocoa (42). By Fredk. Boehm, Ltd., 17 Jewry Street, London, E.C.3. 562,843.
- Silhouette design of girl's head with hair flowing behind; for perfumery, etc. (48). By Drugs, Ltd., 145 Sydney Road, London, N.10. 563,849.
- "DRENE"; for liquid shampoos and liquid perfumed soap (48). By T. Hedley & Co., Ltd., Phoenix Buildings, Collingwood Street, Newcastle-on-Tyne. 563,310. (Associated.)
- "ARIEL"; for perfumery, etc. (48). By René Desvaux de Marigny, 351 Fulham Palace Road, London, S.W.6. 563,860.

(From "The Trade Marks Journal," November 27, 1935.)

- "LIQUID INSECTICIDE KILLS COCKROACHES," etc., on label design incorporating figure of man with sword and two beetles; for liquid insecticides (2). By the Killo Insecticide Manufacturing Co., 32 Bell Street, Dundee. 560,479.
- "P. P. L." monogram; for chemicals (2). By Poultry Prophylaxis, Ltd., 448 Strand, London, W.C.2. 564,042.
- "CHAFER'S D.S."; for a fungicide for potatoes (2). By J. W. Chafer, Chemical Works, Milethorne Lane, Doncaster. B561,630.



## Marriages

**KELLY—BEARD.**—At Our Lady of Ransom Church, Llandrindod Wells, on November 27, by the Rev. Fr. E. J. Kelly, D.D., Ph.D. (brother of bridegroom), Bernard Myrddin Kelly, M.P.S., F.B.O.A., F.S.M.C., youngest son of Mr. Dan Kelly Carnarvon, to Mabel Elizabeth, elder daughter of Mr. F. Beard, Llandrindod Wells.

**MCCAY—SCOTT.**—At Muckamore, co. Antrim, Presbyterian Church, recently, Rex, the younger son of the late Robert McCay, L.P.S.I., to Margaret Scott.

## Deaths

**FRANCIS.**—At Perth, Western Australia, recently, Mr. James Arthur Morgan Francis, a chemist born at Carnarvon, aged fifty-one.

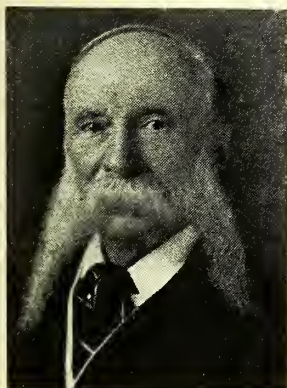
**JONES.**—At Epsom Hospital, on December 3, Mr. Ernest James Jones, chemist and druggist, Ashstead, Surrey, aged thirty-eight.

**KNOWLES.**—At Horwich, on November 23, Mr. John Thomas Knowles, chemist and druggist, formerly in business at Ingleton and Barnard Castle, aged sixty.

**MCGAVIN.**—On November 26, Mr. William McGavin, chemist and druggist, Pope Lane, Penwortham, Preston. Mr. McGavin qualified in 1901, and succeeded to the pharmacy established by his father over sixty years ago in Friargate, Preston. Recently he disposed of this business and opened other premises in Penwortham.

## Personalities

**SIR JAMES CRICHTON-BROWNE, M.D., LL.D., D.Sc., F.R.S.** (a director of Bovril, Ltd.), recently celebrated his ninety-fifth birthday.



SIR JAMES CRICHTON-BROWNE

Sir James has been vice-president of the Royal Institution; president of the Medical Society, the Neurological Society and the Medico-Psychological Association; and has written various works on mental and nervous diseases, education and other subjects.

**MR. JOHN S. HILL** (Hill-Smith (Warrington), Ltd., chemists, Warrington) attained his eightieth birthday on November 20.

**ALDERMAN J. W. STAINER, J.P., Ph.C., Folkestone**, has been elected chairman of the borough education committee.

**MR. HAROLD BELDON** has been granted permission to practise as a chemist and druggist in Jersey.

**MR. A. E. MILLS**, chemist and druggist, Stockport, has been elected chairman of the borough Insurance Committee.

**MR. THOMAS G. STEWART**, chemist and druggist, Bracknell, has been elected captain of the Berkshire Bowling Association.

**MR. ARNOLD STOTT, J.P.**, general manager of the Wardle Cotton Co., Ltd., Wardle, Rochdale, has been elected to the board of the company.

**MR. W. W. WAKEFIELD, M.A., M.P.S.**, moved the address in reply to the speech from the Throne at the opening of Parliament on December 3.

**MR. C. EDWARDS, Ph.C., B.Sc.** (William Ransom & Son, Ltd., Hitchin), who was successful at a recent examination in Branch E (food and drugs), has been elected a Fellow of the Institute of Chemistry.

## Business Changes

**MR. V. W. WOOD**, chemist and druggist, is opening an additional branch at Chapel Walk, Sheffield.

**MR. P. J. BROWN**, chemist and druggist, Hayling Island, has opened a branch at 46 King's Road, Southsea.

**MR. J. MACLEAN**, chemist and druggist, has acquired the business at 178 Main Street, Auchinleck, Ayrshire, formerly carried on by Mr. David Taylor.

**MR. AIMÉ JOAILLET**, chemist and druggist, has purchased the business of Aspinall & Co., 16 Gerard Street, Ashton-in-Makerfield, Lancs. [Corrected note.]

**NATURAL CHEMICALS, LTD.**, ask us to announce that on December 20 they are removing to more commodious premises at 12 Clipstone Street, London, W.1, to which address all communications should be sent.

**MR. CHARLES F. WELCH** advises us he has left the firm of Welch & Horner, 9 and 10 Jewry Street, E.C.3, and has commenced trading under his own name at 6 and 7 London Street, E.C.3, handling drugs, essential oils, etc.

## Wills

**MR. ROBERT CAIRNIE**, Norwood, Milnathort, Kinross-shire, chemist, who died on July 29 last, left personal estate in Great Britain valued £5,568.

**MR. WILLIAM ROSS**, 24A Bank Street, Galashiels, Selkirkshire, chemist and druggist, who died on August 7 last, aged eighty-eight, left personal estate in Great Britain valued at £9,429.

**MR. CHARLES LAWRENCE OF CHARLES TYLER**, 11 Christchurch Avenue, Brondesbury, N.W., a director of Stafford Allen & Sons, Ltd., manufacturing chemists, who died on September 23 last, aged seventy-three, left estate gross value £10,644.

**MR. THOMAS GROUND**, 31 Monmouth Street, Topsham, Devon, chemist and druggist, formerly with Southall Bros. & Barclay, Ltd., Birmingham, who died on August 24 last, aged seventy-eight, left property gross value £5,337, with net personalty £4,766.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Tuesday, December 10

*Pharmaceutical Society of Great Britain*, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Evening meeting. Mr. Percival Hartley, M.C., D.Sc., on "International Biological Standards for Drugs and Therapeutic Substances."

### Wednesday, December 11

*Pharmaceutical Society of Great Britain, Anglesey, North Carnarvonshire and Colwyn Bay Branch*, The Library, Mostyn Street, Llandudno, at 3 p.m. Business meeting.

### Thursday, December 12

*Pharmaceutical Society of Great Britain, Blackpool Branch*. Mr. W. J. Beardsley on "Current Pharmaceutical Topics."

*West Ham and Eastern District Association of Pharmacists and Branch*, St. Antony's Hall, Lancaster Road, Forest Gate, at 7.15 p.m. Christmas Party. Tickets 3s. 6d. each.

*Pharmaceutical Society of Great Britain, Reading and District Branch*, Willison's Hotel, Blagrove Street, Reading, at 8 p.m. Dr. Sidney Gifford on "Insomnia."

### Friday, December 13

*Pharmaceutical Society of Great Britain, North British Branch*, 36 York Place, Edinburgh, at 8 p.m. Evening meeting. E. G. V. Percival, B.Sc., Ph.D., on "The Chemical Nature of Vitamins with Special Reference to Ascorbic Acid"; H. W. Blair, M.P.S., on "Cascara Sagrada: An Unusual Adulterant."

**EXHIBITIONS.**—Central Hall, Westminster, London, S.W.1, December 9 to 14. *Scientific Instruments.*—Borough Polytechnic, Borough Road, S.E.1, December 13 and 14. *Students' Work.*—Royal Academy, Burlington House, Piccadilly, London, W.1, till March 7, 1936. *Chinese Art.*



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The tenth edition of this, the most complete pharmaceutical formulary in the English language, is devoted to the official and semi-official preparations of practically every country in the world. This volume (published 1929) contains 1146 pages.

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### PHARMACEUTICAL FORMULAS (P.F., Vol. II).

Published 1934. Supplementary to Vol. I, and known as "The Chemist's Recipe Book." Contains formulas for adhesives, beverages, cleaning materials, culinary and household requisites, horticultural and agricultural preparations, inks, lozenges, perfumes, photographic preparations, polishes, soaps, toilet articles, varnishes, veterinary preparations, etc. Including numerous descriptions of practical methods employed in their manufacture, and other information of use to pharmacists and manufacturers. Over 1000 pages.

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## Information Department INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

M/282. "Eyteb" (Agents)	K/495. Iodised sea salt
L/361. "Harmony" perfume	D/580. Veriplast



# THE CHEMIST AND DRUGGIST

VOL. CXXIII.

December 7, 1935

NO. 2913

## Chemists' Friends and Others

ACCORDING to the official statement of the National Pharmaceutical Union the Chemists' Friends scheme is now definitely launched. Official approval has also been expressed by the N.P.U. Executive in regard to the response of the retail chemists, and it is noteworthy that the response from the wholesale trade is considered satisfactory. It is a commonplace to say that such a scheme was bound to arouse the opposition of other branches of the trading community. One of the most frenzied comments on the Chemists' Friends scheme is the outburst in "The Grocer" of November 30 by Mr. W. Herman Kent, national secretary of the Grocers' Federation. Many of the statements put forward by the author of the article can easily be refuted, yet the vigorous protest of the Grocers' Federation is a lesson to pharmacists on the virtues of a virile and united challenge when the domain they claim as theirs is assailed. It is as well for chemists to realise that the Chemists' Friends scheme is likely to result in controversies on a scale comparable with those which followed the introduction of the Proprietary Articles Trade Association scheme by the late Sir William Glyn-Jones. First of all Mr. Kent states that the introduction of the scheme is clearly an attempt to anticipate the operation of the new Poisons List which comes into force on May 1, 1936, under the Pharmacy and Poisons Act, 1933, and which will give listed sellers, in addition to registered pharmacists, the right to sell effective disinfectants, presumably among other poisonous substances. The familiar bogies of "monopoly" and of "restraint of trade" are raised, and it is suggested that the attention of the Home Secretary and of Parliament will have to be directed to the monopoly-creating scheme "which is destined to abrogate the authority of the Legislature." It is unfortunate that Mr. Kent does not explain the manner in which the Chemists' Friends scheme, as we understand it, is likely to defeat the new legislation. The alleged iniquities of the chemist who encroaches upon the selling preserves of other traders are outlined in detail by Mr. Kent, but the most interesting comment is perhaps the following:—

"By a subtle and unjust differentiation in the application of the Medicine Stamp Acts, chemists enjoy exemption from medicine stamp duty in respect to many patent preparations (not primarily sold as medicines) which is denied to other traders, with the result the chemists take a much larger profit on such articles than other traders. Despite this *£ s. d.* advantage and without giving up a single one of their encroachments on other trades they now seek to widen their monopoly beyond their statutory rights."

Every chemist knows that when a proprietary article is destamped the chemist by no means benefits to the full extent as the result of the destamping. If, as the writer suggests, the differentiation in the application of the Medicine Stamp Acts is a subtle and unjust one, it does not appear to have aroused the criticism of other traders until now; and as the first Medicine Stamp Act was introduced in 1783 there has surely been time enough to discover whether any differentiation made between various trades was in fact so unjust as is suggested. With regard to the

suggestion that a new trade in substitutes for proprietary preparations on the banned list is likely to arise, this is no new contention, for substitutes are always with us and every retailer in any trade is well aware of the difficulty experienced in convincing a prospective customer that one article is an effective substitute for another. The ingenious suggestion that chemists have benefited by the increased popularity of certain products through the more enterprising selling methods and displays of the traders against whom they now seek to impose a ban is put forward, and it is in no way a surprise to find a suggestion that a Grocers' Friends scheme should be used, as it were, to out-Herod Herod. In the N.P.U. Supplement for November dealing with the Chemists' Friends scheme the statement is made that during the next six months much will depend upon the attitude of retail chemists. This is probably true so far as it goes, but much also depends on the attitude of wholesale chemists and manufacturers, to say nothing of the combativeness shown by other traders.

## Canadian Pharmaceuticals and Cosmetics

ACCORDING to a report of the Dominion Bureau of Statistics the Canadian production of medical and pharmaceutical preparations, proprietary medicines and similar articles during 1933 was valued at \$17,063,849, compared with \$17,573,979 in 1932 and \$18,110,794 in 1931. Of the 158 factories in this group in 1933, 83 were in Ontario, 57 in Quebec, 7 in Manitoba, 4 in British Columbia, and 2 in each of Nova Scotia, Saskatchewan and Alberta, and 1 in New Brunswick. Capital employed by these firms was reported at \$17,402,705, employees numbered 3,169 and payments in salaries and wages totalled \$3,850,928. Materials used in manufacturing cost \$5,774,391 and the value added was \$11,289,458. Plants in Ontario produced 56 per cent. of the Canadian output, and concerns in Quebec accounted for 36 per cent. Imports into Canada of drugs, medicinals and pharmaceuticals were valued at \$2,588,168 in 1933 compared with \$2,832,025 in 1932. About 40 per cent. came from the United States, 32 per cent. from the United Kingdom, and 11 per cent. from France. Exports of medicinal and proprietary preparations totalled \$634,155 in 1933 as against \$817,701 in 1932.

Dealing with the cosmetics and toilet preparations production in Canada, the report indicates that there is a considerable number of manufacturers who make toilet preparations as a minor part of their output and therefore are classed in other industrial groups. Only about 70 per cent. of the Canadian output of these products is produced in the toilet preparations industry. In 1933, a total of 80 plants were included in this industry; 52 were in Ontario, 20 in Quebec, 4 in Manitoba, and 4 in British Columbia. Production from these works was valued at \$5,477,324, including \$4,291,189 for toilet preparations and \$1,186,135 for other products. Capital employed in manufacturing operations amounted to \$4,817,533, employees numbered 934 and salaries and wages totalled \$898,224. Compared with 1932 there was a gain of 9 plants and 59 employees but a decline of 8 per cent. in production. Imports of toilet preparations into Canada were valued at \$438,723 in 1933 compared with \$737,274 in 1932. About 45 per cent. of the imports came from the United States, 27 per cent. from France and 26 per cent. from the United Kingdom. The total production of toilet preparations in Canada from all industries amounted to \$5,912,162 in 1933 at factory values compared with \$6,957,862 in 1932.



## "C. & D." Retail Price List

THE end of the year usually brings only a few changes in prices, quite insufficient to make a marked difference in the average of 200 items. The change in the drug index of prices from the October figure is 0.1 (146.9 against 146.8). The comparable figure in 1934 was 140.2. The surgical-dressing index of selling prices remained unchanged at 136.2, which figure has been unaltered since March of this year. The 1934 figure was 136.3. The important changes in prices are set out below:—

Cost			Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
108	lb.	Agar (shredded) .. ..	—	3 11	1 1	—
114	lb.	Agar pulvis .. ..	—	4 1	1 2	—
18	lb.	Aqua laurocerasi .. B	2 3	0 8	0 3	—
10	lb.	Canary seed .. ..	1 3	0 4 <sup>1</sup>	—	—
14	oz.	Lithii benzoas .. ..	—	—	2 0	0 4
15	oz.	Lithii carbonas .. ..	—	—	2 3	0 4
12	oz.	Lithii citras .. ..	—	—	1 9	0 3
14	oz.	Lithii salicylas .. ..	—	—	2 0	0 4
15	oz.	Lithii sulphas .. ..	—	—	2 3	0 4
15	oz.	Ol. limonis .. ..	—	—	2 3	0 4
84	lb.	Tr. zingiberis .. ..	—	3 0	0 10	0 2
96	lb.	Tr. zingiberis fort. P.B. '85 ..	—	3 4	0 11	0 2
54	lb.	Ung. ac. tannic .. ..	—	2 0	0 7	—

## Dental Board

THE twenty-ninth session of the Dental Board of the United Kingdom opened at 44 Hallam Street, London, W.1, on November 13, Mr. Sheridan presiding in the absence of the chairman (Sir Francis Dyke Acland), who was engaged in a parliamentary election contest. Mr. Sheridan read the

### CHAIRMAN'S ADDRESS

sent by Sir Francis with an expression of regret for his absence. In the course of his observations he gave the following survey of the Board's finances since it was set up under the Dentists Act, 1921:—

We have received from the dentists since the start in 1922 about £600,000, of which we have needed roughly one-third for our own expenses and building our office. We have given nearly another third as grants to students, over £50,000 to dental schools for extension and equipment, and the same for research; to demonstrating to the public the advantages of good dental health, over £40,000; about £18,000 so far in improving the teaching in dental schools, a service only fairly recently begun, and about £10,000 for lectures and demonstrations to the less experienced, and to the more experienced, dentists.

In the latter part of his address the chairman gave the profession a serious warning, apropos of the N.H.I. Dental Benefit Regulation which came into general operation on July 1, regarding the giving of false certificates in documents known as dental letters. Since the Regulations of 1930 came into force there had been, he stated, fifty such cases, twenty-four of which resulted in inquiries held before the Board. In the end, the names of fourteen of the dentists concerned had been erased from the Register. The chairman reported an extension of the work of propaganda on the subject of "dental health."

### DISCIPLINARY CASES

During the session (which occupied two days) nine dentists who appeared in answer to various charges were discharged or were ordered to produce satisfactory testimony after an interval. The respondents, some of whom had previously appeared in connection with these charges, were:—Mr. C. Windle, 73 Poulton Road, Fleetwood (improper certification); Mr. R. S. Smith, 21 Fore Street, Tiverton (drunkenness); Mr. L. Newton, 1A Upsdell Avenue, Palmer's Green, N.13 (improper certification); Mr. O. Trigge, L.D.S.R.C.S.Irel., 86 Coburg Street, Plymouth (improper certification); Mr. J. P. Lewins, 12 Croxteth Avenue, Wallasey (improper certification);

Mr. A. Bates, 396 Glossop Road, Sheffield (improper certification); Mr. S. Bain, 20 Castie Street, Shrewsbury (improper certification); Mr. T. W. Field, 1 Chester Road, Bromborough (improper certification); Mr. S. L. Milliken, 283 Crumlin Road, Belfast (a motoring offence). (The names recommended for erasure from the Register will be found in the report of the General Medical Council's session, p. 672.)

### FINANCE COMMITTEE

The report of the Finance Committee stated that estimated income for the present year is £38,480, and estimated expenditure £41,680. Estimated receipts for 1936 amount to £38,825, and general expenses to £11,710. It is proposed to allocate £21,000 to educational grants and £7,200 to research and other matters.

## U.S. Pharmacopœia

THE eleventh revision of the United States Pharmacopœia will be available on December 16. The Board of Trustees has fixed June 1, 1936, as the date when the standards of the new Pharmacopœia shall become official. The following articles have been added to the Pharmacopœia:—

Acriflavina.  
Acriflavinae Hydrochloridum.  
Aethylenum.  
Aethylhydrocupreinae Hydrochloridum.  
Aethylis Oxidum (Solvent Ether).  
Antitoxinum Scarlatinae Streptococcicum.  
Bismuthi et Potassii Tartras.  
Calcii Creosotas.  
Calcii Gluconas.  
Calcii Hydroxidum.  
Carbo Activatus.  
Carbonei Dioxidum.  
Chlorobutanol.  
Digitalis Pulverata (Biologically standardised).  
Emulum Petrolati Liquidi (50 per cent.).  
Ephedrina.  
Ephedrinae Hydrochloridum.  
Ephredinae Sulfas.  
Erythritylis Tetranitras Dilutus (Erythrol Tetranitrate).  
Extractum Hepatis.  
Ferri et Ammonii Citrates Virides.  
Fluoresceinum Solubile.  
Histaminae Phosphas.  
Hydrargyri Succinimidum.  
Iodophthaleinum Solubile.  
Liquor Ergosterolis Irradiati (Viosterol).  
Liquor Hepatis.  
Liquor Hepatis Purificatus.  
Liquor Histaminae Phosphatis.  
Liquor Parathyroidei.  
Liquor Sodii Hypochloritis (4 per cent.).  
Merbaphenum.  
Neocinchophenum.  
Oleum Iodatum.  
Oleum Maydis.  
Oleum Morrhuæ Non-destearinatum.  
Oleum Rosae.  
Phenacinae Hydrochloridum.  
Phenobarbitalum Solubile.  
Pulvis Chiniofoni.  
Serum Antimeningococcicum.  
Serum Antipneumococcicum—I.  
Sodii Perboras.  
Sodii Stearas.  
Stomachus.  
Tabellae Glycerylis Trinitratis.  
Theophyllina cum Ethylenediamina.  
Theophyllina cum Sodii Acetate.  
Tinctura Iodi Mitis (2 per cent.).  
Toxinum Diphthericum Detoxicatum.  
Toxinum Diphthericum Diagnosticum.  
Toxinum Scarlatinae Streptococcicum.  
Toxitabellae Hydrargyri Bichloridi Parvae.  
Trypsamidum.  
Tuberculinum Pristinum.  
Vaccinum Rabies.  
Vaccinum Typhosum.  
Vaccinum Typho-paratyphosum.

THE London office of the Leipzig Fair has been moved to First Avenue House, High Holborn, W.C.1. Telephone: Holborn 1408-09.

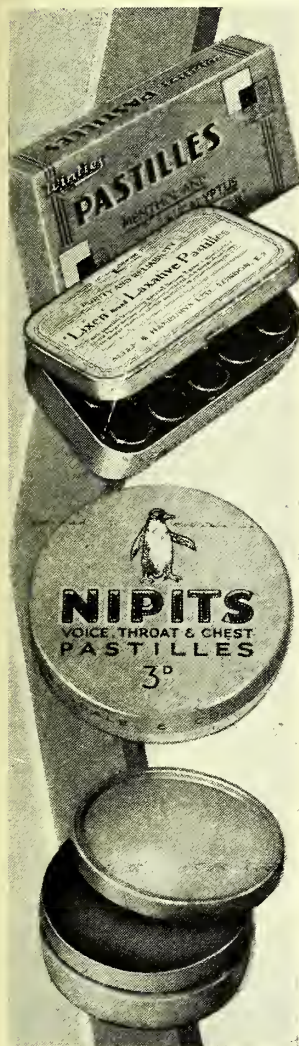


# "PACKAGING" FOR CHEMISTS

Pastilles, tablets, capsules, pills and pellets are met with in a variety of containers. In this article (the second in the series) the various methods of "packaging" this class of chemist's goods are examined and compared.

## II

(Continued from THE CHEMIST AND DRUGGIST, November 16, p. 597.)



THE small dry-goods of chemists, other than powders, are a class about which generalisations are impossible. Many considerations of sales policy govern the nature of their containers—price, method and rate of using, keeping qualities, facilities available for packing, and so on.

### Pills and Pellets

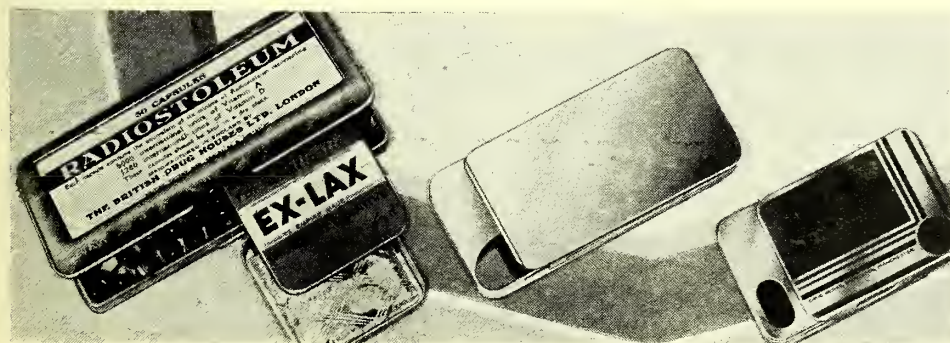
Wood, metal, card and glass are the usual materials of pill containers. The wooden drum of Beecham's Pills holds the pills without damage and without rattle. Its printed paper label adheres without trouble, and an accompanying leaflet is skilfully employed in place of wrapping but without obscuring the label. Small glass tubes are also popular for pills. They make for easy counting if the dose is more than one pill. Pellets have recently benefited by an improvement in package design which makes for greater convenience. In the newer type of tin issued by the Metal Box Co., Ltd., a sliding lid discovers a small aperture from which pellets may be shaken singly instead of being picked out with the fingers. Two variants of this type of tin are illustrated.

### Pastilles and Capsules

A "crystallised" pastille can be treated differently from a "glazed," which cannot be left in contact with paper or card, other than waxed. For the cheaper crystallised pastilles, therefore, a carton is adequate. For glazed pastilles, close fitting in a flat tin is preferred. A good example is that for Lixen pastilles shown, where no jolting can injure the perfect surface of the pastille. "Air-conditioning," which is rapidly becoming popular, enables pastilles (and other commodities) to remain for an indefinite period in perfect condition. A plain tin constructed for this purpose by the Metal Box Co., is illustrated. The ridged lid and grooved edge are inherent in the pack. Small capsules are very suitably enclosed in glass tubes, from which they are easily counted out. The examples illustrated are amongst the best extant, their metal screw caps of close thread providing a tight closure. Other considerations have prompted the long flat tin for Radiostoleum capsules. Here the capsules are kept in one layer, thus avoiding massing of the soft capsules into a conglomeration.

### Tablets

Compressed tablets and lozenges are packed in containers of glass, cellophane, metal or pasteboard. Each has certain drawbacks. Pasteboard, for example, yields when it should resist. But it is cheap, easy to work, store, handle and afterwards destroy; though frail, it is not fragile. Metal resists



Left, above, cardboard and metal pastille packs compared. The unbranded tin is designed for "vacuum-filling" or "air-conditioning." A penny opens it. Above: Carton by Townsend of Exeter and tube packings of capsules and gelatines. The wooden box of Beecham's Pills was taken from its "shell" of printed matter and replaced without loss of grip—a pretty proof of expert wrapping. At the foot of the page, "shake-out" pellet tins; a flat packing for soft gelatine capsules; and a tin to distinguish medicinal from eating-chocolate slabs.





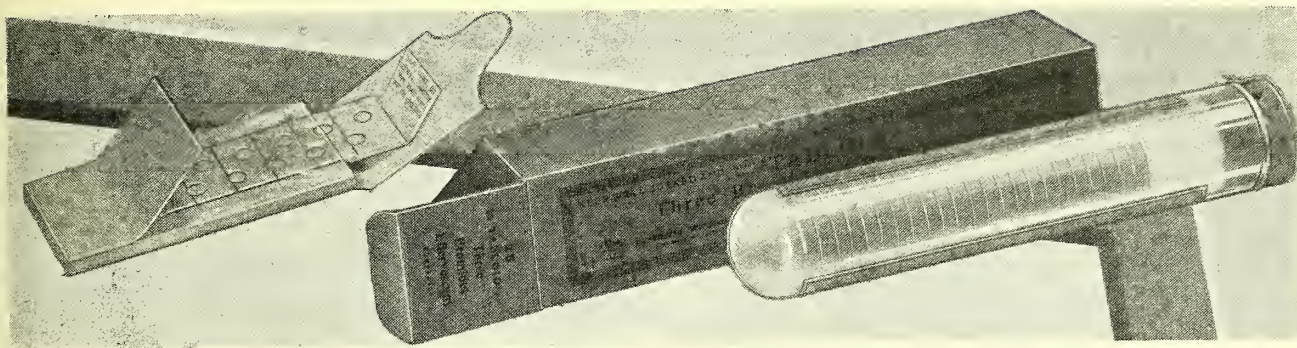
pressure but rubs its contents. Tins take embossed words well but affixing paper labels often presents some difficulty. Their "tinkle" when half-empty may annoy, though their rigid, unbreakable, compact convenience appeals. Cellophane reveals but itself needs a rigid protector. Glass is rigid, transparent, easily moulded, but obviously fragile. This too rubs, and a tablet bottle inwardly coated with white powder is no uncommon sight. The function of the contents usually dictates the container. Thus a large, cheap lozenge to be freely used goes well in a carton, which serves for its normal lifetime. The chemist can carton his own tablets economically, obtaining the empty containers from the usual chemists' printers. Such cartons have advantages over envelopes, transparent or otherwise. The carton is also a usual "overcoat" for bottled tablets. It helps stacking and lessens risk. Clever design can make of the carton a real advertisement. The Calsimil carton illustrated, an excellent example, attracts the eye and tells a convincing story. As a rule, a carton veils its contents, but this drawback too can be overcome. In the carton of Marienbad tablets the cellophane window has been used to excellent advantage, showing its silvered contents in orderly formation. The Armstrong's tablets "window-carton" shows off the tablets well, but unfortunately gives no inkling of the shapely, well-capped and useful bottle below; eminently a case for depicting the bottle on the carton. For a prolonged treatment, the Halmagon pack could hardly be bettered. Tablets fit tubes and tubes nestle snugly in tight troughs. Lettering and printed design are, however, disappointingly below this high standard. Normo-gastrine tablets look attractive in their cellophane tube, whose frailty may not perhaps become apparent during its usual period of use. Small glass tubes such as are commonly adopted to-day for aspirin tablets are probably more serviceable but no doubt less distinguished. Rytol illustrates an awkward problem adequately solved. Tabloids of equal number but unequal size are packed in dis-



Each packaging method for tablets and lozenges illustrated has an appropriate use. For low-priced tablets freely taken: the carton. For a prolonged course: the nest of tubes. For coated tablets to be shaken into the hand: the upright bottle. Window cartons to reveal products appealing to the eye. Embossed tins to provide a perpetual advertisement after contents are exhausted. Where use is frequent, good wide bakelite or metal caps that screw on. Where moisture may attack, tight-fitting corks coated with paraffin-wax.





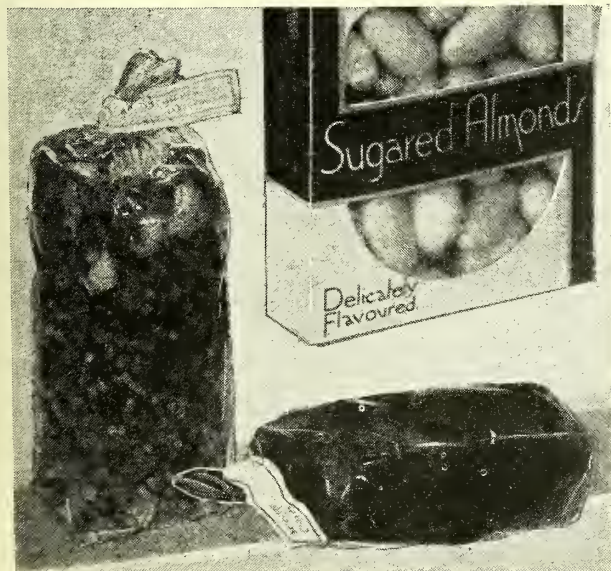


similar bottles but housed in a single carton. Paraffin wax at the cork prevents deterioration. Keating's Cough Lozenges are presented in a tin probably used later for pins, pen-nibs or paper-clips. Hence the embossed advertisement, superior to a perishable label. Iron-Ox Tablets need their embossed lid because the label, necessarily small, is broken in order to arrive at the contents. Virtue from necessity. Having regard to the usual method employed for counting tablets, its infrequent utilisation for packing purposes is surprising. How excellently it can be embodied is illustrated by the physician's sample of ten tablets shown. A sliding drawer is pulled sufficiently beyond its cellophane cover, inverted, and the required number of tablets tapped out. Beside it is an economical packing for large tablets, whose shape has been adapted to fit tubes readily procurable without special making. The tablets fit like pistons into a cylinder. Vibration is thus minimised. On another page is shown a different type of "tablet"—the medicinal chocolate. Probably the foil and paper wrappings used for chocolate slabs would be an efficient covering for these, but their medicinal application necessitates a distinctive treatment.

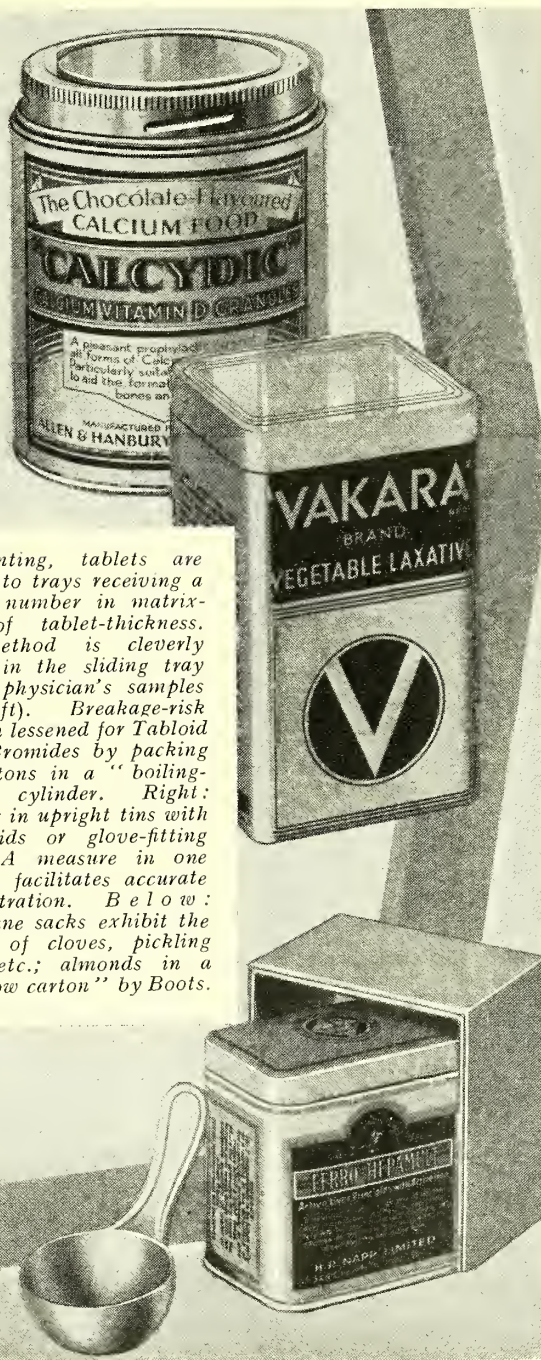
### Granules and Whole Drugs

The important point of difference between powders and granules, from a packaging point of view, is that leakage of the granules need not be considered. The "Calcydic" tin incorporates a metal screw lid smooth and strong in use. The "Vakara" tin is simple in the making but of outstanding merit in the printed design. Two interesting features are embodied in the Hepamalt container—a close-fitting waxed card box and lid; and a measure-spoon enclosed in the tin.

Cellophane has introduced great changes in the retailing of crude drugs. Cloves and spices can be inspected without being handled, and stored without loss of fragrance. "Window-cartons" for senna pods, chaenomile flowers, etc., have appeared, combining these advantages with those of the carton.



In counting, tablets are swept into trays receiving a definite number in matrix-holes of tablet-thickness. The method is cleverly applied in the sliding tray of ten physician's samples (top left). Breakage-risk has been lessened for Tabloid Three Bromides by packing like pistons in a "boiling-tube" cylinder. Right: granules in upright tins with screw lids or glove-fitting caps. A measure in one example facilitates accurate administration. Below: cellophane sacks exhibit the quality of cloves, pickling spice, etc.; almonds in a "window carton" by Boots.





## Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

### Report on the November Analytical Exercise

THE powder distributed to students on November 5 consisted of equal parts by weight of potassium aluminium sulphate (potassium alum), zinc sulphate, and magnesium sulphate. The calculated composition of such a mixture is:—

Al ... ..	1.9
Zn ... ..	7.6
Mg ... ..	3.3
K ... ..	2.8
SO <sub>4</sub> ... ..	37.6
H <sub>2</sub> O ... ..	46.8

100.0

The powder contained, as impurity, a sufficient trace of chloride to yield a slight turbidity when silver nitrate was added to its aqueous solution.

Samples of the powder were distributed to twenty-six students, and eighteen reports were returned for examination. Zinc and the sulphuric acid radical were reported in every instance, but aluminium was missed by one student, magnesium by six, and potassium by five. In two cases the very abundant evolution of water when the powder was heated in a dry tube was unreported.

While the mixture consisted of salts having a large proportion of sulphuric acid radical, and all three of these were associated, in their crystalline condition as salt hydrates, with much water, the combined weights of the four metallic radicals amounted to less than 16 per cent. by weight of the powder. On reference to the quantitative composition as given above, it will be seen that, with the exception of the zinc, the metallic radicals were present in rather unusually small proportions—a state of matters that tended to cause more failures than usual in the systematic analysis. In some measure compensating for any difficulty due to the small quantity of each metallic radical present was the fact that the powder was easily soluble in cold water, so that there were no complications in preparing an original solution.

It was only in the detection of magnesium and potassium that the failures were numerous. Some of these failures were doubtless due to tests being applied to solutions that had become too dilute, by the addition of aqueous reagents, to yield characteristic reactions within a short period of waiting. In such cases they might have been obviated if much of the water had been got rid of by boiling down in a shallow vessel. In this connection it should always be borne in mind that both ammonium magnesium phosphate and hydrogen potassium tartrate are distinctly, although only slightly, soluble in water and therefore may not appear at all as precipitates in highly dilute solutions.

In accordance with the intimation, in the report on the October exercise, that special credit would be given in the exercises of the tournament series for the sufficiency, as well as for the accuracy of interpretation, of the preliminary tests applied, this arrangement is now in operation. Correspondents should be particular to carry out the more important of these numerous tests. As a rule, not fewer than twelve separate preliminary tests should be reported upon, and that number is seldom exhaustive.

### PRIZES

The First Prize for the best analysis has been awarded to:—

E. W. STEEL, 29 Bradford Terrace, Birches Head, Hanley, Staffs.

The Second Prize has been awarded to:—

VICTOR JOHN GILLOTT, 27 Goldthorpe Road, Goldthorpe, Rotherham.

**First Prize.**—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

**Second Prize.**—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

### MARKS AWARDED FOR ANALYSES

#### 1. Correspondents who have not passed in Chemistry:—

E. W. Steel (1st Prize) ... 95	B. I. P. P. ... 77
V. J. Gillott (2nd Prize) ... 92	Inf. Gent. ... 73
Beta ... 87	Beacon ... 71
T. N. T. ... 79	Poile de Carotte ... 69
Analysis ... 79	Sir Isaac ... 62

#### 2. Correspondents who have passed in Chemistry:—

Mitosis ... 96	Aganippe ... 73
E tan e epi tan ... 95	Hippocrene ... 73
Poppy ... 94	Nihil ... 72
Emodin ... 90	Hodie non Cras ... 63

### TO CORRESPONDENTS

V. J. GILLOTT.—The sulphide precipitate in the zinc group should have been systematically tested for zinc and manganese; the fact that the precipitate did not darken on exposure to air was not a proof of the absence of manganese.

BETA.—The "pungent gas" evolved on heating the powder with concentrated sulphuric acid must be attributed to the volatilisation of some of the acid, while the odour observed on heating it with sulphuric acid and alcohol was not due to ethyl acetate but to ethyl hydroxide. Examine the latter reaction in cases where an acetate is known to be absent, and compare with cases where acetate is present.

T. N. T.—In connection with your summary of results you mention aluminium and zinc as impurities in the mixture, whereas in your account of the systematic analysis the reactions you describe indicate the absence of both. In view of the contradiction involved, it has not been possible to give you full credit regarding the two metals. You will observe that borate and phosphate were both absent.

B. I. P. P.—Although the proportion of potassium present was comparatively small, it should have been possible, at the end of the operations you describe, to obtain satisfactory flame and other reactions.

INF. GENT.—The presence of great excess of ammonia, in which aluminium hydroxide is to some extent soluble, may have prevented the formation of an iron-group precipitate in sufficient quantity to be readily observed. Boiling to drive off such excess is advisable before concluding that a precipitate is not likely to be produced.

BEACON.—In applying tests for a sulphite, do not overlook the fact that hydrochloric acid in moderate concentration reduces both potassium permanganate and potassium chromate, especially on heating; also that the acid is itself easily volatilised.

POIL DE CAROTTE.—We have not been able to confirm reactions that you adduce as indicating the presence of bromine in any form of combination.

SIR ISAAC.—We can only account for the various reactions you describe, which led you to report a bromide, on the supposition that the powder became contaminated in some way with foreign material before or during your analysis.

MITOSIS.—The slightly acid aqueous solution of the powder interacted with sodium bicarbonate with evolution of carbon dioxide. Tartrate was absent.

POPPY.—For a reason that has been stated repeatedly in this column, Nessler's reagent is not appropriate as a uniformly applicable test for ammonium salts: you may discover the reason for yourself if you add a drop of the reagent to a moderately concentrated solution of ammonium chloride.

EMODIN.—You do not give any reason for omitting borax bead and charcoal tests in the preliminary examination, and we do not know of any. Contrary to your reported experience, we found that the aqueous solution of the powder gave a precipitate with sodium carbonate.

AGANIPPE and HIPPOCRENE.—Calcium may have been introduced in tap water.

NIHIL.—We cannot understand how you were led to report the evolution of carbon dioxide when the powder was heated with sulphuric acid, or how calcium chloride gave a precipitate that you supposed to be calcium oxalate.

**COMPULSORY DRUG TARIFF IN FRANCE?**—According to the "Action Pharmaceutique," the French Minister of Health has undertaken to impose a general and compulsory price tariff for medicaments sold to private customers.



# Ceylon Produce

THE following extracts are taken from the Annual Report for 1934 on the economic conditions of Ceylon, published by the Government Record Office, Colombo.

## Cinnamon

Cinnamon, once the main export, still occupies a place—though a minor one—in the trade of the island. Plantation in earliest days was mainly confined to the Western Province, of which Negombo was the most important centre. Much of this area was replaced with coconuts in subsequent years, but the extension of cultivation took place in the Southern Province, where at the present time it is estimated that there is more land under cinnamon than in the Western Province. The approximate total acreage is 26,000 acres, of which 58 per cent. is in the Southern Province (Galle District 40 per cent.) and 41 per cent. in the Western Province (Negombo area 30 per cent.). The cinnamon tree may grow to the height of 20 to 30 ft., and the trunk may be upwards of 3 ft. in circumference. The trees cultivated to produce the cinnamon of commerce are coppiced, and long willow shoots are produced, growing to a height of about 10 ft. and to the size of a fair-sized walking stick. The shoots are cut and the bark is peeled off and rolled into quills, which constitute the cinnamon of commerce. The tree blossoms in January, in April the fruit is ripe, and the cutting is done from May to October. The sticks are gathered by boys and tied into bundles with coir strings; they are then removed to the peeling stores. The object of the methods employed is to make the bark up into quills, a quill being a rod of cinnamon resembling a thin cane 4 ft. in length; the pieces of bark when stripped are placed round the sticks, both with a view to preserving their shape and as a convenience for the next operation. They are now allowed to remain for three to six hours, when fermentation takes place, and the bark is ready for skinning. This treatment of the bark leaves only that part which has the desired delicate taste; it is of a pale yellow colour and a parchment-like texture. The bark is now left to ferment and dry, which if the weather be favourable takes about 30 minutes. An acre will yield about 120 lb. quills.

## Desiccated Coconut

The distribution of the export trade in desiccated coconut was as follows:—

	1930	1931	1932	1933	1934
	Tons	Tons	Tons	Tons	Tons
United Kingdom ...	1,4594	15,642	14,914	20,568	14,112
Germany ...	6,426	5,582	6,011	6,971	6,935
Holland ...	2,442	2,154	1,539	2,310	2,235
Spain ...	1,383	1,198	1,356	1,377	1,422
Italy ...	962	874	663	726	856
Belgium ...	837	884	706	1,012	855
France ...	949	944	786	928	714
New Zealand ...	493	584	343	653	640
United States of America ...	2,327	1,729	558	684	625
Canada ...	1,170	740	520	436	576
Australia ...	632	164	71	112	95
Other countries ...	3,019	2,971	2,496	3,716	3,271
Total exports ...	35,234	33,466	29,963	39,493	32,336

## Citronella Oil

Citronella oil grass is a large coarse grass growing 3 to 4 ft. high. It flourishes up to an elevation of 2,000 ft., but its cultivation is confined entirely to the Southern Province, where the acreage under this crop is estimated to be 33,000 acres, of which 62 per cent. is in the Matara District and the remaining 38 per cent. in the Hambantota District. Cultivation is in the hands of the Ceylonese. The grass is readily propagated by division (seed being rarely produced), and may be planted about 2 by 3 ft. apart in rows. The clumps are ready for cutting in about eight months from time of planting. Two cuttings a year may be obtained, and about 40 lb. of marketable oil per acre is an estimated annual yield.

## Cardamoms

The commercial value of the plant lies in the fruit, which is borne on racemes rising from the ground. The plant itself—

*Eleotaria Cardamomum*—grows in stools or clumps under the shade of forest trees at elevations between 2,800 and 4,000 ft. with a rainfall of 115 to 150 in. a year. The fruit is manufactured into either bleached or green dried. In the former case the fruit is bleached, soaked, and dried in sulphur fumes, the process being repeated until the required pale colour is secured, and the ends are clipped off either by hand or by a clipping machine. In the latter case the fruits are merely dried in the sun. The total acreage under cardamoms is estimated to be 6,000 acres, of which 82 per cent. is confined to the Central Province—approximately 2,500 acres in the Kandy District, 1,500 acres in the Nuwara Eliya District, and 1,000 acres in the Matale District. About 1,000 acres are found in the Kegalla and Ratnapura Districts (Province of Sabaragamuwa).

## Other Products

In addition to the major products there are a number of minor commodities entering into the export trade, particulars of which are indicated in the table below:—

Quantity (in 1,000's)					
	1930	1931	1932	1933	1934
Cacao (lb.) ...	8,648	8,587	9,243	7,282	9,113
Cinnamon quills and chips (cwt.) ...	44	42	48	49	44
Cardamoms (cwt.) ...	2.8	2.7	2.7	3.2	3.4
Arecanuts (cwt.) ...	113	102	99	105	90
Citronella oil (lb.) ...	1,214	1,203	1,280	1,459	1,528
Plumbago (cwt.) ...	174	134	122	191	231
Value (in 1,000's)					
	1930	1931	1932	1933	1934
	Rs.	Rs.	Rs.	Rs.	Rs.
Cacao ...	2,937	2,320	2,192	1,545	1,802
Cinnamon quills and chips ...	1,780	1,177	993	987	1,163
Cardamoms ...	454	375	373	338	356
Arecanuts ...	2,621	1,678	1,400	1,285	996
Citronella oil ...	1,346	948	1,203	1,274	804
Plumbago ...	1,775	1,225	1,023	1,214	1,655

The principal feature was an increase in the export of cacao by nearly 1,900,000 lb.; of citronella oil by 70,000 lb. and plumbago by 40,000 cwt. There was a corresponding increase in value in the case of cacao and plumbago, but it is significant to note that the value of the exports of citronella oil declined by 50 per cent. to Rs. 804,000, although there was a quantitative increase of nearly 16 per cent.

**A NEW BLUE DYE.**—The discovery of a new blue dye, named by the manufacturers Monastral Fast Blue BS, is announced by Imperial Chemical Industries, Ltd., who state that for many industrial purposes it represents a great advance in tinctorial power, fastness and so forth on any blue pigment known hitherto.

**TRIBUTE TO LIEUTENANT-COLONEL HARRISON.**—"The Sunday Times" of November 10 contained a letter from Mr. J. C. Stead, Ph.C., of Hove, calling attention to the work done in connection with gas-masks by the late Colonel E. F. Harrison, who died on November 4, 1918. Mr. Stead's letter concluded as follows:—

"... one episode in connection with the issue of the box-respirator may be of interest to your readers. For this respirator, which is now a standard, there was a difficulty in obtaining adequate supplies of hard charcoal, and he phoned me as to the possibility of obtaining a certain shell. It was not practicable, and I suggested that stones from fruit, fresh or preserved, as found in most households, would answer his purpose. Forthwith arrangements were made for the collection of these by boy scouts; the stones so obtained were carbonised at Woolwich, and the charcoal was used satisfactorily. All this was done with the intensiveness characteristic of Harrison's work. The anniversary of his death recalls poignantly his self-sacrifice to duty."



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 5

Pharmaceutical Chemicals, etc.

BUSINESS during the past week has been rather better; the general tone is quite steady with further appreciations in values recorded and many markets distinctly firm. The weakness in some Continental exchanges is interfering with forward business, importers preferring to await developments. The call for PHARMACEUTICAL CHEMICALS is well up to average, with home makers' prices mostly steady. The price of MERCURY continues to advance, this week by one dollar a bottle, making the SALTS very firm. The Convention scale of prices for THYMOL has been advanced. Makers' prices for BORIC ACID, B.P., are reported dearer.

## Crude Drugs

Not at all a bad business is being done and prices are certainly keeping well up, with some lines still advancing. A modest supply of CURAÇAO ALOES is available at the moment on spot at high figures. Cape is dearer forward. BARBASCO and DERRIS ROOTS have received more inquiry this week. BUCHU prices are again dearer; market firm. CASCARA SAGRADA is firm at former figures and in limited supply. Foreign DANDELION ROOT is scarce and dearer. There is no break in the recent high prices of ERGOR. French GENTIAN is a better market. Sudan GUM ACACIA tends easier. MATTO GROSSO IPECACUANHA has sold well; shipment offers dearer and restricted. LYCOPodium, to arrive, is sharply dearer. MENTHOL is not too good a market. MERCURY prices continue sharply upwards and business has again been heavy. The small selection of RHUBARB is dearer; still nothing offered for shipment. Spanish SAFFRON is again dearer and the position is very firm. The best white grades of TRAGACANTH are dearer and in very short supply. At the annual sale of CASTOREUM this week the offerings were less than usual, but the quality good. Sales were brisk, practically everything being cleared at prices which showed a sharp advance on last year's limits.

## Essential Oils

Business has been a little better this week, but competition in some lines seems to be very keen. Shippers are still not offering ANISE (STAR). There is no material alteration in the spot values of BERGAMOT and other Sicilian oils; business in these products has been moderate. CASSIA is a poor item. Madagascar CLOVE is firm for shipment. French LAVENDER is dull and tending easier. There has been a steady inquiry for Singapore PATCHOULI on spot, but stocks are very limited and firmly held for much higher figures; the Seychelles oil is also dearer. Japanese PEPPERMINT still meets with a good demand on spot and for goods shortly due to arrive; supplies are limited and held for firm prices; the distant shipment market is quoted steadily with speculators looking for lower rates. PETITGRAIN has sold well on spot and supplies are low; quoted dearer forward. Business in FIXED OILS has been moderate with prices keeping steady. PALM OILS are dearer and firm. CASTOR OIL is easier. LINSEED is quiet. American TURPENTINE has been dull and is quoted easier.

## Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	December 5	Value of the £
Amsterdam ...	Fl. to £	12.107	7.28	12/0½
Berlin ...	Mks. to £	20.43	12.27	12/0½
Brussels ...	Belgas to £	nominal	20.20	16/8½
Copenhagen ...	Kr. to £	18.159	22.40	24/8
Lisbon ...	Esc. to £	110	109½	19/11½
Madrid ...	Ptas. to £	25.22½	36½	28/6
Milan ...	Lire to £	nominal	nominal	nominal
Montreal ...	Dol. to £	4.86½	4.98½	20/6
New York ...	Dol. to £	nominal	4.93½	20/3½
Oslo ...	Kr. to £	18.159	19.90½	21/11
Paris ...	Fr. to £	124.21	74½	12/0½
Prague ...	Kr. to £	164.25	119½	12/1
Stockholm ...	Kr. to £	18.159	19.39½	21/4
Warsaw ...	Zloty to £	43.38	26½	12/0½
Zurich ...	Fr. to £	25.2115	15.25	12/0½

Bank rate 2 per cent.

SOME of the seasonal products continue in steady demand, while business in other lines is moving on limited lines. There are no changes in values of importance to record, and the general tone is steady. Thymol prices have been advanced. Citric and tartaric acids are also firm markets.

ACETANILIDE.—Limited business, market steady: B.P. crystals and powder, rs. 5½d. to rs. 8d. per lb., as to quantity.

AMIDOPYRINE.—Spot business in small parcels at keen figures: crystals, five cwt., rs. 0¾d.; two cwt., rs. 5¼d.; less than two cwt., rs. 10½d. per lb., with powder 2½d. per lb. extra. These prices are being discounted.

AMMONIUM ICHTHIOSULPHONATE.—Keen competition for a limited business: one cwt., rs. 6½d., in 14-lb. tins; rs. 8d., in 1-lb. tins; rs. 10½d., in 8-oz. tins, and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN (TABLETS).—The following are agreed wholesale prices of the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000, and over, 2s. 2d. per thousand tablets. A rebate of rd. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Market is about steady, moderate spot inquiry: spot, one cwt., rs. 3¾d.; 56 lb., rs. 8d.; small parcels, up to 16s. 2d. per lb.

BENZOIC ACID (B.P.).—Values steady, fair business: quantities, ex works, rs. 9½d.; spot, parcels, rs. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Prices are very steady at makers' scales: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb.

BORIC ACID (B.P.).—Makers' prices have been advanced 30s. per ton, as follows: crystals, £36; powder, £37 per ton.

BROMIDES.—Business up to average with values holding quite steady: ammonium, not less than five cwt., rs. 9d.; one cwt., rs. 10d.; small quantities, 2s. 5d. per lb.; potassium, B.P. crystals, and granular, not less than 5 cwt., rs. 6d.; one cwt., rs. 7d.; 28 lb., rs. 10d.; smaller quantities, 2s. 2d. per lb.; sodium, B.P., not less than five cwt., rs. 8d.; one cwt., rs. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

CAFFEINE.—Continental makers' agreed prices: pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered, 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5½d.; one cwt., 5s. 6¾d.; 56 lb., 5s. 7½d.; smaller quantities, 5s. 8½d. per lb., delivered. British material: pure, 5s. 6d., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 56 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—Moderate demand, market competitive: spot, one cwt., rs. 0¾d.; 56 lb., rs. 1½d.; 28 lb., rs. 2½d.; smaller quantities, up to rs. 6d. per lb.

CARBOLIC ACID (B.P. CRYSTALS).—The scale of prices is as follows: Twenty tons, 7d.; ten tons, 7½d.; one ton, 7¾d.; less than one ton, 7½d. per lb., in drums, carriage paid. Wholesale distributors' prices for small parcels will be dearer.

CHLORAL HYDRATE.—Home makers' prices: spot, duty paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Makers' prices are as follows: two cwt., 2s. 5½d.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ¾d. per lb. less. Small bottles extra, from 5d. per lb., for ¼-lb. bottles to rd. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Conditions in this market continue very steady: British material quoted at rs. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for this market for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz., and less than 16 oz., 34s. 6d. per oz., 16 oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz.,



35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.;  $\frac{1}{2}$  oz., and less than 1 oz., 37s. 11d.;  $\frac{1}{4}$  oz. and less than  $\frac{1}{2}$  oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.;  $\frac{1}{2}$  oz. and less than 1 oz., 40s. 8d.;  $\frac{1}{4}$  oz. and less than  $\frac{1}{2}$  oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to re-sell any quantity at below the scale price for such quantity current at the time of re-sale. These scales of prices do not apply to export business, particulars of which may be obtained from the usual sources of supply.

CREAM OF TARTAR.—Quoted values unchanged. British material, 99 to 100 per cent., 79s. per cwt., less  $2\frac{1}{2}$  per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Not much business moving: bulk quantities, in 25 kilo. demijohns, 1s. 9 $\frac{1}{2}$ d. to 1s. 10d. per lb.; smaller parcels, 1s. 10 $\frac{1}{2}$ d. to 2s. 3d. per lb., ex store.

GLYCERIN (B.P.).—Makers' scales are as follows:—

Contracts or Spot	Under 1 cwt.	1 cwt. and under 2 $\frac{1}{2}$ cwt.	2 $\frac{1}{2}$ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.	1 ton and under 5 tons
Minimum deliveries	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Tins, 14 lb. ... ..	82 6	78 0	77 0	74 0	73 0	69 0
Tins, 28 lb. ... ..	79 6	75 6	74 6	71 6	70 6	66 6
Tins, 56 lb. ... ..	76 6	73 0	72 0	69 0	68 0	64 0
Drums, 1 cwt. (charged 20s.)	—	68 6	67 6	64 6	63 6	59 6
Drums, 2 $\frac{1}{2}$ cwt. ( " 60s.)	—	—	65 6	62 6	61 6	57 6
Drums, 5 cwt. ( " 75s.)	—	—	—	62 0	61 0	57 0
Drums, 10 cwt. ( " 100s.)	—	—	—	—	60 6	56 6

Industrial white glycerin, 1.260 s.g., 2s. per cwt. less than chemically pure. Refined pale straw glycerin, 1.260 s.g., 5s. per cwt. less than chemically pure. Smaller deliveries, ex contracts, than as specified above charged extra.

HEXAMINE.—Makers' prices for bulk quantities are competitive: fair business: B.P. powder, from 1s. 3 $\frac{1}{2}$ d. to 1s. 4 $\frac{1}{2}$ d.; free-running crystals, from 1s. 7d. to 1s. 8 $\frac{1}{2}$ d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 7 $\frac{1}{2}$ d.; one cwt. 1s. 8d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—A very fair business continues in these salts with quotations well maintained: potassium iodide, B.P., one cwt., 5s.; 28 lb., 5s. 2d.; 14 lb., 5s. 4d.; 7 lb., 5s. 8d.; 4 lb., 6s. 2d.; smaller quantities, 6s. 8d. per lb.

MERCURIALS.—At the recent advance makers' prices are firm: Chloride, B.P., not less than one cwt., 4s. 11d.; smaller quantities, from 5s. per lb. upwards.

METHYL SALICYLATE.—A steady business with makers' prices unchanged: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5 $\frac{1}{2}$ d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Fair spot business being done at keen prices: two cwt., 19s. 3 $\frac{1}{2}$ d.; one cwt., 19s. 9 $\frac{1}{2}$ d.; 56 lb., 20s. 2 $\frac{1}{2}$ d.; small parcels, up to 20s. 8d. per lb.

PARAFORMALDEHYDE.—Rather competitive, business limited: 100 per cent. powder, quantities, in kegs, 1s. 1 $\frac{1}{2}$ d.; smaller parcels, up to 1s. 3d. to 1s. 6d. per lb.

PHENACETIN.—No improvement in values, business quiet: crystals or powder, bulk quantities, 2s. 7d. to 2s. 8d.; smaller parcels, 2s. 8 $\frac{1}{2}$ d. to 3s. per lb., as to quantity.

PHENAZONE.—Modest business but competition is very keen: crystals, five cwt., 8s. 9 $\frac{1}{2}$ d.; two cwt., 9s. 0 $\frac{1}{2}$ d., and less, 9s. 3d. per lb., with powder 2 $\frac{1}{2}$ d. per lb. extra.

PHENOLPHTHALEIN.—Small business on a keen market: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYL ETHYL BARBITURIC ACID.—Some small spot business at keen prices: quoted from 25s. 6d. to 27s. 6d. per lb., in 2-lb. bottles.

QUININE SALTS.—Convention scales of prices continue steady; business about normal: sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8 $\frac{1}{2}$ d.; salicylate, 2s. 9 $\frac{1}{2}$ d.; hydrochlor., 2s. 7 $\frac{1}{2}$ d.; bihydrochloride, 2s. 10 $\frac{1}{2}$ d.; hydrobromide, 2s. 7 $\frac{1}{2}$ d.; bihydrobromide, 2s. 10 $\frac{1}{2}$ d.; valerianate, 3s. 7d.; hypophosphite, 3s. 10 $\frac{1}{2}$ d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities; 100-oz. tins free; smaller packing extra.

SANTONIN.—Prices from first-hands steady; some outside cheaper sellers. Not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £30 1s.; less than 10 kilos., £36 9s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

SODIUM BENZOATE (B.P.).—Moderate business, market competitive: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10 $\frac{1}{2}$ d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Steady at former prices, market quiet: spot, one cwt., 15s. 9d.; 28 lb., 16s.; 14 lb., 16s. 3d.; 7 lb., 16s. 6d.; smaller parcels, up to 17s. per lb.

SODIUM SALICYLATE (B.P.).—Seasonal business continues fairly good at steady prices: home trade, crystals or powder, five cwt., 1s. 8 $\frac{1}{2}$ d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

SULPHONAL.—Dealers' prices about steady, spot business on a small scale: crystals or powder, two cwt., 15s. 5 $\frac{1}{2}$ d.; one cwt., 15s. 10 $\frac{1}{2}$ d.; 56 lb., 16s. 1d.; smaller quantities, up to 16s. 9d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Quoted unchanged: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

THEOBROMINE.—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3 $\frac{1}{2}$ d.; one cwt., 6s. 4 $\frac{1}{2}$ d.; 56 lb., 6s. 5 $\frac{1}{2}$ d.; smaller quantities, 6s. 6 $\frac{1}{2}$ d. per lb., delivered, 5-lb. tins free, smaller packages extra.

THYMOL.—Makers' prices for the synthetic fine white have been advanced, as follows: two cwt., 5s. 10d.; one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6d. per lb. The spot prices for ex ajowan seed are so far unchanged but a proportionate advance is expected in due course.

VANILLIN.—Convention prices are fairly steady, business average: ex clove oil or guaiacol, five cwt., 13s. 3d.; one cwt., 13s. 6d.; 56 lb., 13s. 9d.; less, 14s. per lb.

### Crude Drugs, etc.

AGAR.—Limited demand on spot; shipment prices for new crop maintained: spot, Kobe No. 1, 3s. 6d.; No. 2, 3s. 2d.; Yokohama No. 1, 3s. 3d. per lb.; shipment, Kobe No. 1, January-February, 2s. 2d.; March-April, 2s. 1d.; No. 2, 2s.; Yokohama No. 1, 1s. 11d. per lb., c.i.f.

ALOES.—Fair arrivals of Curaçao reported this week, most of which has gone into consumption, but some cases are available on spot. Cape is steady on spot and dearer for shipment: Cape, spot, 52s. 6d. for prime in boxes; shipment, boxes, 48s. 6d.; large cases, 50s. 6d. per cwt., c.i.f. Curaçao, spot, 105s. to 107s. 6d.; shipment, December-January, 102s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude is quoted at £34, c.i.f. English regulus at £76 to £77, spot.

BALSAMS.—Market is quiet with values unchanged: *Tolu*, 1s. 5d. to 1s. 6d.; *Canada*, 2s. 9d.; *Peru*, 5s. 4d. per lb., spot.

BARBASCO ROOT.—Rather more inquiry with some sales: 5 per cent. rotenone, about 1s. 2d. per lb., spot.

BELLADONNA.—Dealers are doing average small parcel business: leaves, 65s.; root, 57s. 6d. per cwt., spot.

BUCHU.—This market continues firm and the remaining very small stocks are again dearer, with one lot of good green limited at 1s. 9d.; other lots range from 1s. 7d. to 1s. 8d. per lb., as to quality. No news of new crop prospects; the quotation for old crop from the Cape stands at 1s. 5d., c.i.f.

BURDOCK ROOT.—Dealers are quoting spot supplies at about 45s. per cwt.; business has been quiet.

CASTOREUM.—The annual sale of the Hudson's Bay Company was held on Wednesday last, when 1,377 lb. were offered, against 2,068 lb. in 1934. The quality of the consignment was fairly good, most of the lots containing a good percentage of well-matured pods. On account of the smaller arrivals, and the reduced carry-over from last year, there was a brisk demand all round, everything being cleared "under the hammer" with the exception of a few lots of Pile 3. Prices generally showed a sharp advance on last year's limits, and in the case of Pile 1 there was an increase of 10s. to 12s. 6d. per lb. Whilst the demand for the home trade was small, there were a number of orders from the Continent. Furthermore, dealers, whose stocks during the past year had been seriously depleted, were anxious to replenish them even at the advanced prices, and bidding was brisk. We give below full details of the offerings and prices realised:—

Quality	Quantity	Price
Firsts ... ..	Lbs. 60	57/- to 61/6
Firsts and seconds ... ..	32	45/-
Seconds ... ..	176	40/- to 41/-
Thirds ... ..	672	30/-
Pickings ... ..	199	27/- to 28/-
Cuttings, etc. ... ..	238	23/- to 25/-

It is not possible to give last year's comparative values, as on that occasion everything in the sale was withdrawn.



**CAMPHOR.**—Market is dull and unchanged on quotation: Japanese, spot, tablets, 2s. 6½d.; powder, 2s. 4½d.; slabs, 2s. 4d. per lb., ex store. Shipment, tablets, 2s. 2d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f. English refined is still unchanged; flowers, 1 cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d., ½ oz., ½ oz., and ¼ oz., 3s. 6d. per lb.; special prices for contracts and quantities.

**CANTHARIDES.**—Business has been unimportant: Russian, 6s. 9d.; Chinese, 2s. 3d. to 2s. 4½d. per lb., as to quantity, spot.

**CASCARA SAGRADA.**—Continues firm on spot at former figures and shipment offers are dearer and for very limited quantities: on spot, fair business: 1932 peel, 54s.; 1933 peel, 51s.; 1934 peel, 49s. per cwt.; shipment, 1933 and 1934 peel, about 45s. per cwt., c.i.f. Practically no 1935 peel left at source.

**CELERY SEEDS.**—Dealers are quoting fair quantities at about 85s. to 90s. per cwt.

**CHAMOMILES.**—Market is fairly steady at the recent decline: quoted from 110s. to 130s. per cwt., as to quality and quantity.

**COCOA BUTTER.**—Market continues steady: prime English, 9d. to 9½d. per lb. Foreign, 8½d. to 9d. per lb., as to quantity.

**COCONUT (DESICCATED).**—Values are fully maintained: spot, fine, 24s. 6d.; medium, 24s. 6d. per cwt.; shipment, halves, December, 24s.; January, 23s. 6d. per cwt., c.i.f.

**CLOVES.**—At slightly better figures the market is steady: Zanzibar, spot, 7½d.; shipment, December-January, 6½d. per lb., c.i.f. Madagascar, in bond, 6½d.; shipment, December-January, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended November 30 were *nil* and the deliveries *nil*, leaving a stock of 2,573. From January 1 to date the landings of Zanzibar have been 2,960 and the deliveries 3,411. Landings of Madagascar for the week ended November 30 were *nil*, and the deliveries 269, leaving a stock of 488. From January 1 to date landings of Madagascar have been 4,031 and the deliveries 3,786 packages.

**COD-LIVER OIL.**—Bergen reports the shipment market is steady, business moderate: finest Lofoten, steam refined non-freezing medicinal oil, 88s. to 89s. per barrel, c.i.f. London; spot, in small lots, 132s. per barrel, ex store, duty paid. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 110s. to 112s. 6d. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

**DANDELION ROOT.**—Spot holders of foreign root are quoting firmly from 80s. to 85s. per cwt., as to quantity. Supplies continue short.

**DEERIS ROOT.**—A parcel testing 3.3 rotenone is available on spot at about 11d. per lb. There has been more inquiry this week.

**DIGITALIS LEAVES.**—Some good green leaves are available on spot in small quantities at about 90s. per cwt.

**ERGOT.**—In Russian there are limited supplies on spot available at 5s. 7½d., while another holder is not selling at less than 6s. 1½d. Portuguese and Spanish, in small lots on spot, would be about 8s. per lb. For shipment there have been a few offers round about 7s., c.i.f., but buyers are waiting for a more attractive figure.

**GENTIAN.**—This market is firmer with spot supplies of French root now fully 38s. and upwards per cwt.

**GINGER.**—West African continues at high values, market steady: West African, spot, 50s.; for arrival, January-March, 41s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 98s. to 100s.; small grinding, 72s. 6d. per cwt., in bags, ex store.

**GUM ACACIA.**—The market has been quiet with rather easier terms mentioned: spot, Kordofan cleaned sorts, 48s.; bleached No. 1, 110s.; extra, 120s. per cwt.; shipment, Kordofan cleaned sorts, 44s. 6d. per cwt., c.i.f.

**HENBANE.**—Spot supplies continue to be quoted at about 80s. per cwt., business slow.

**IIENNA.**—Not much inquiry on spot: Indian, 30s. to 32s. 6d.; Egyptian, 30s. per cwt.

**HYDRASTIS.**—Values are being steadily maintained here, but business is slow: spot, 9s. 3d.; shipment, 9s. per lb., c.i.f.

**IPECACUANHA.**—Some quite good business is reported here, and full prices are stated to have been paid: Matto Grosso, B.P. test, firm at 5s. 6d. per cwt., spot; shipment is dearer with offerings limited and quoted at 5s. 4½d. per lb., c.i.f., for guaranteed B.P. quality.

**LIQUORICE ROOT.**—Natural root is being offered from 13s. up to 14s. for small lots. Decorticated is steady as quoted from 37s. 6d. to 47s. 6d. per cwt., as to quality.

**LYCOPodium.**—Practically nothing left on spot. A parcel to arrive is being quoted at about 7s. per kilo. for small lots.

**MENTHOL.**—Limited spot inquiry, otherwise the market is dull: K/S brands, spot, 13s. 7½d.; in bond, 12s. 6d.; afloat, 12s.; shipment, November-December, 11s. 10½d. per lb., c.i.f. Japanese shippers quote December-January, 12s.; January-March, 11s. 10½d. per lb., c.i.f.

**MERCURY.**—The Spanish-Italian group report shipment price is again advanced by one dollar. Business has been substantial for most destinations. Market is firm and further advances are antici-

pated: quoted at 62 dollars 50 cents per bottle, f.o.b. Continent; spot, in small lots, £12 18s. 6d. per bottle, ex store.

**ORPUM.**—A modest spot business continues at former rates: spot, 1s. 5d. to 1s. 5½d. per unit, landed and duty paid. The controlled price works out at about 1s. 6d. per unit.

**ORANGE PEEL.**—A supply of bitter quarters is available at about 37s. 6d. per cwt. in small quantities.

**ORRIS ROOT.**—This market continues firm with good bold Florentine root in small lots up to 60s. per cwt.

**PEPPER.**—Values are again slightly easier, market dull: Lampong, 3d., in bond; shipment, January-March, 2½d.; March-May, 2½d., c.i.f. Tellicherry, spot, 5½d.; shipment, January-March, 36s., c.i.f. Aleppo, spot, 4½d.; shipment, January-March, 33s., c.i.f. White Muntok, 5½d., in bond; shipment, January-March, 4½d.; March-May, 4½d. per lb., c.i.f.

**PIMENTO.**—Market has been quieter and values are below the best: spot, 6½d. per lb.; shipment, December-January, 58s. per cwt., c.i.f. sellers.

**QUASSIA CHIPS.**—Dealers are quoting spot supplies at about 22s. 6d. per cwt. Business quiet.

**QUILLAIA BARK.**—Some crushed bark is available on spot in small parcels at about 35s. per cwt.

**RHUBARB.**—Higher prices for the small stocks left on spot are being quoted. In Shensi the values are now firm at 4s. 3d. to 4s. 6d. No Canton left. Rough round, all pinky, firm at 1s. 6d. and ordinary quality, 1s. 5d. per lb. Nothing at all offering from the source for shipment.

**RUBBER.**—Slight loss in values, market has been on the quiet side. Standard ribbed smoked sheet, spot, 6½d.; December, 6½d.; January-March, 6½d.; April-June, 6½d.; July-September, 6½d.; October-December, 6½d. per lb.

**SAFFRON.**—This market continues very firm and values have again advanced: spot, B.P., 1898, prime, 47s.; extra, 45s.; super, 44s. per lb., and less for bulk quantities.

**SARSAPARILLA.**—Business has been on a better scale: spot, Jamaican grey, 1s. 4½d. to 1s. 5d.; native, mixed colours, 10½d. to 1s. per lb., as to quantity, spot.

**SEEDS.**—Markets are quiet with little business passing. ANISE.—Spot, duty paid, Spanish, 66s. Bulgarian, 29s. CANARY.—Mazagan, spot, 37s., duty paid; Spanish, 48s. to 52s., duty paid. CARAWAY.—Dutch, 39s. 6d. per cwt., duty paid. CORIANDER.—Morocco old crop on spot has sold at 19s. 6d.; new crop quoted at 18s. 6d., duty paid; new crop, for shipment, 15s. 9d., c.i.f. CUMIN.—Malta, spot, offered at 48s. Morocco, 48s. 6d., duty paid. DILL.—Indian, 117s.; spot, 16s. 6d. FENNEL.—Persian, quoted at 40s. FENUGREEK.—Morocco, spot, can be had at 14s. 6d., duty paid. MUSTARD.—English, 20s. to 31s. per cwt., according to quality.

**SENAGA.**—There has been more inquiry for this article, with spot and shipment quoted at about 1s. 4d. per lb.

**SENNA.**—Inquiry for Tinnevely leaves has been fair with prices steady at rates detailed in last report. Supplies of best-quality Alexandrian pods continue scarce, and the new crop cannot be expected for a month or two. No. 2 quality has been moving off fairly well, particularly for pods about 2s. 6d. to 2s. 9d. per lb.; there has also been a fair demand for parcels at 1s. 3d.-1s. 6d. per lb. The Alexandrian market may be influenced in the coming months by the Italian-Abyssinian situation, and if the price of Sudan cotton continues its upward tendency, it is possible that the senna crop will be of less interest from the growers' point of view.

**SHELLAC.**—Values are level on the week, business moderate: spot, standard TN orange, 57s. to 61s.; fine orange, 85s. to 147s. 6d.; pure button, 85s. to 95s. per cwt., spot. For delivery, TN, December, 56s.; for arrival, TN, December-January, 61s., c.i.f.

**SQUILL.**—The moderate supplies offering are being quoted in the region of 47s. 6d. per cwt., as to quality and quantity.

**STRAMONIUM.**—Dealers are offering some good green leaves at 45s. and seconds at 37s. 6d. to 40s. per cwt., as to quantity.

**TONKA BEANS.**—Occasional small business with fair frosted Para beans at 2s. 9d. to 2s. 10½d. Angostura, 8s. 6d. to 8s. 9d. per lb.

**TRAGACANTH.**—Continued inquiry for all grades of druggists' gum, particularly for No. 1 and the extra grades, stocks of which are short and now firmly quoted at £26 10s. to £28 10s. No. 2 at £22 10s. to £23 10s., is also in limited supply. Rather more doing this week in grades priced at £9 to £11 per cwt.

**VALERIAN ROOT.**—Spot supplies are available at 50s. per cwt. Business quiet.

**WAX.**—Brees'.—Market is steady: Abyssinian, spot, 120s.; in bond, 108s.; shipment, 107s., c.i.f. Benguella, spot, 120s.; shipment, 107s., c.i.f. Conakry, spot, 120s.; shipment, 107s. 6d., c.i.f. Dar-es-Salaam, spot, 120s.; shipment, 117s. per cwt., c.i.f. CARNAUBA.—Market has been quiet, quoted unchanged. Fatty grey, spot, 182s. 6d.; shipment, November, 170s., c.i.f. Chalky grey, spot, 180s.; shipment, November, 167s. 6d., c.i.f. Primeira, spot, good quality is very scarce and firm at 225s.; afloat, 220s.; shipment, November, 210s., c.i.f. Mediana, spot, 210s.; shipment, November, 195s. per cwt., c.i.f.



## Essential Oils, etc.

**BUSINESS** has been rather subdued this week, but the general tone is keeping quite steady. Japanese peppermint is firm on spot. Sicilian oils are steady but in quiet demand. Singapore patchouli is again sharply dearer. Petitgrain is in short supply and firmer on spot and for shipment.

**ALMOND**.—Values are being maintained, average business: English-made, cwt. lots, 2s. 8d.; smaller parcels, up to 2s. 10d. per lb.; foreign, cwt. lots, 2s. 5½d.; smaller parcels, 2s. 9d. per lb. French, bitter, up to 2s. 9d. per lb.

**ANISE (STAR)**.—The source is still ignoring requests for offers. There are re-sellers of drums afloat at about 1s. 7½d., c.i.f., but little business is recorded. On spot the market is steady, demand slow: spot, leads, 2s. 0½d.; tins, 1s. 10½d.; drums, 1s. 10d. per lb., ex store; shipment, nominal, no offers.

**BAY**.—Occasional small spot business: 49 to 50 per cent., 5s. 1½d. to 5s. 4½d. per lb., as to quantity.

**BERGAMOT**.—While the volume of business being done on spot is not important, holders of stocks are in no hurry to sell, and are keeping their quotations quite steady at about 8s. 3d. to 8s. 6d. per lb., as to brand and quantity.

**BOIS DE ROSE**.—Inquiry is still rather poor, with prices for Brazilian oil at about the recent rates of 5s. 3d. to 5s. 4½d., spot, with shipment at 5s. per lb., c.i.f., in drums.

**CAJUPUT**.—A very limited business in this product: B.P., 1s. 10d. to 2s. 1d. per lb., as to quantity.

**CANANGA**.—The spot market seems to be irregular on quotation. There does not appear to be many spot holders, and prices mentioned range from 10s. 6d. up to 12s. 6d. per lb.; forward business is reported in the region of 10s. per lb., c.i.f.

**CARAWAY**.—The prices for Dutch are keeping steady, but business is slow. Some Russian oil, of good odour but scarcely up to B.P. standard, is stated to be offering at keen prices: Dutch rectified, 10s. 6d. to 10s. 9d.; crude, 10s. 1d. per lb., landed.

**CASSIA**.—This market shows no improvement in demand, and prices are rather unsteady: spot, about 4s. 3d. to 4s. 4d. per lb., as to quantity. The shipment market is dull and now not more than 3s. 1d., c.i.f.

**CEDARWOOD**.—Fair inquiry with values keeping steady: African and American, 1s. 1½d. to 1s. 2d., in drums, and up to 1s. 4½d. per lb. for smaller packings.

**CINNAMON LEAF**.—The shipment market for Ceylon oil about steady at 2s. 3d., c.i.f., for a quantity: on spot drums would be 2s. 5d. to 2s. 6d., and up to 2s. 10d. per lb. for smaller packings.

**CITRONELLA**.—Conditions in this market are still unsatisfactory, with values at record low levels and business of importance lacking. Ceylon, spot, drums, about 1s.; smaller parcels, 1s. 1d. to 1s. 4d.; shipment, drums, 9½d. to 9½d. per lb., c.i.f. Java, spot, drums, 1s. 2½d.; smaller parcels, 1s. 3d. to 1s. 7d.; shipment, drums, 1s. 0½d. per lb., c.i.f.

**CLOVE**.—The Madagascar oil for shipment is firm and some interest is noted. There has been a normal demand on spot: Madagascar, spot, drums, 3s. 1½d. to 3s. 2d.; smaller packings, up to 3s. 6d. per lb.; shipment, 2s. 7½d. per lb., c.i.f. English-made oil, 90 per cent., about 4s. 3d. per lb.

**EUCALYPTUS**.—This market is fully steady and the position at the source is strong. Business has been on fairly good scale: Australian, 70 to 75 per cent., 1s. to 1s. 0½d.; 80 to 85 per cent., 1s. 1d. to 1s. 1½d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 2d. per lb., ex store.

**GERANIUM**.—The shipment markets for Bourbon and Algerian are keeping quite steady, and limited business is reported: on spot, values cover a wide range, as to quality: Bourbon, spot, 20s. to 22s. 6d.; shipment, 21s., c.i.f. Algerian, spot, 21s. 3d. to 22s. 6d.; shipment, 21s. per lb., c.i.f.

**GINGERGRASS**.—The price for spot oil, which is in limited supply, is steady at 5s.; shipment, if available, about 4s. 3d. per lb., c.i.f.

**HO (SHIU)**.—Market has been rather quieter: spot, 1s. 8d. to 2s. 1d. per lb., as to quality and quantity.

**JUNIPER BERRY**.—Fair inquiry continues with spot holders quoting about 3s. per lb. for standard quality in small parcels.

**LAVENDER**.—There seems to be little doing here, and the market tends rather easier. Prices depend on the quality of the oil with genuine Mt. Blanc, 38 to 40 per cent., still not less than 26s. 6d., landed, but there are other offers at much lower figures. Lavandin is also irregular on quotation, ranging from 13s. to 14s. 6d. per lb.

**LEMON**.—A moderate consuming business has been done this week with values of Sicilian hand-pressed keeping steady in the region of 7s. 6d. up to 7s. 9d., as to brand and quantity. Californian oil is selling now and again on spot with large drums at 4s. 3d. and small drums at 4s. 3½d. per lb. Cold pressed continues to be quoted at 7s. 1d. per lb., landed.

**MANDARIN**.—Very scarce and firmly held on spot for 22s. per lb. for a good quality oil.

**NEROLI**.—Very little interest shown in dealers' prices, which range from 13s. 6d. to 18s. 9d. per oz., as to quality.

**NUTMEG**.—Average small business with English and American oil quoted from 5s. 1d. to 5s. 4d. per lb., as to quantity and quality.

**ORANGE**.—Owing to lack of supply, the Sicilian sweet oil is not a market commodity. There is also a temporary shortage of French Guinea oil on spot with drums, if available, 3s. 2d., and repacked oil in tins in cases, from 3s. 4d. to 3s. 6d. per lb. Business in the shipment market is lacking, due, largely, to the nervous tone in the French exchange. There are offers for new crop oil in good quantities from 2s. to 2s. 1d. per lb., c.i.f., but these low prices are not attracting business under present conditions. Californian is steady but quiet: spot, one case, 3s. 4½d.; two or more cases, 3s. 2d.; small drums, 3s. 1d. per lb.

**PALMAROSA**.—The market remains quiet with spot offers at about 6s. 1d. to 6s. 3d. and shipment about 5s. 7d. per lb., c.i.f.

**PATCHOULI**.—There has again been persistent inquiry for spot supplies of Singapore oil. Prices have again advanced sharply, and the limit for cases is now up to 12s. 6d. per lb., following business at lower figures. Nothing offering for shipment and further advances are anticipated on spot. Seychelles oil is dearer and now bearing 8s. per lb., landed.

**PEPPERMINT**.—The spot and near afloat positions continue firm, and there is a keen demand for any goods available. As yet there are very few declarations for October-December from Japan, making the spot position short: spot, 5s. to 5s. 1½d., as to brand; afloat and due mid-December, 5s., landed terms; shipment, October-December, 4s. 7½d.; January-March, 4s. 6d. per lb., c.i.f., sellers. Japanese shippers quote December-January, 4s. 9d.; January-March, 4s. 8½d. per lb., c.i.f., with buyers of good quantities at about 4s. 5d., c.i.f. Quotations for the American natural oil in drums vary as to menthol content, with good brands of 46 per cent. about 1 dollar 95 cents and 50 per cent. at 2 dollars 10 cents per lb., c.i.f.

**PETITGRAIN**.—Following a fair amount of business, the supplies available on spot seem to be small and are dearer at 4s. 2d. to 4s. 4d., where available. Shipment is also better at 3s. 7½d. per lb., c.i.f.

**ROSEMARY**.—Moderate spot business with Spanish oil quoted from about 1s. 9d. to 2s. 1½d. per lb., as to quantity and quality. French, 3s. 3d. to 3s. 4d. per lb.

**SANDALWOOD**.—Genuine East Indian Mysore, 19s. per lb., in one-case lots, on spot; market is rather unsteady, with cheaper offers in some quarters, particularly for good quantities. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. per lb.

**SASSAFRAS**.—Business of small account, with standard quality natural oil quoted at about 3s. 7½d. to 4s. per lb., as to quantity. Artificial oils at cheaper prices.

**SPIKE**.—The limited inquiry is mostly for small quantities on spot: Spanish, from 4s. 4d. to 5s. per lb., as to quality and quantity.

## Fixed Oils, etc.

A MODERATE business is recorded with some products in poor demand. Palm oils are dearer and firm. Castor oils are easier. American turpentine is slightly cheaper and dull. ACID OILS.—Market has been very quiet: coconut and/or palm kernel, nominal; groundnut, 24s.; soya, 18s., spot. CASTOR.—A decline in values is recorded, market steady but dull: pharmaceutical, 46s.; first pressings, 41s.; second pressings, 39s. (barrels), cases ¼ per ton extra, ex mills, Hull, in not less than one-ton lots; Bombay, 34s. 3d. (drums), c.i.f. COCONUT.—Market is about steady, business limited: deodorised, 33s. (barrels), spot; Ceylon mill, 23s. 3d. (drums), c.i.f. COTTON.—Business has been quiet, values level on the week: deodorised, 34s. 6d. common edible, 32s. 6d.; soapmaking, 29s. 6d.; crude, 28s. 6d. (barrels), spot. GROUNDNUT.—Market is barely steady and remains dull: deodorised, 41s. 6d. (barrels), spot; crude Oriental, 29s. 6d. (drums), c.i.f. LINSEED (RAW, NAKED).—Market has been mostly quiet with values slightly easier on the week: spot, 27s. for small quantities; December, 24s. 4½d.; January-April, 24s. 10½d.; May-August, 25s. 1½d. Boiled oil, spot, 29s. 6d. OLIVE.—With business poor prices are barely maintained: edible, ten gallons, in tins in cases, 82s. 6d.; in drums, 6s. to 6s. 3d. per gallon. PALM.—Values show a further improvement and the market is firm and may advance further: Lagos, 19s. 10½d., shipment; softs, 19s. 7½d., shipment; mediums, 19s. 7½d., shipment; hards, 20s. 7½d., shipment; bleached, 23s. 3d., spot. PALM KERNEL.—Market is firm at the slight advance: deodorised, 33s.; crude, 26s., spot (barrels). RAPE.—Market is dull but values are keeping up: refined, 39s. 6d.; crude, 38s., spot (barrels). RESIN.—Market has been rather quiet: B, 12s. 7½d.; D, 12s. 7½d.; F/G, 12s. 9d.; N, 13s.; W/B, 14s.; W/W, 15s. per cwt., ex wharf. SOYA.—Business has been quiet, quoted unchanged: deodorised, 37s. 6d.; crude, 33s. 6d., spot (barrels). TURPENTINE, AMERICAN.—Business has been slow; values lower on the week: total London stocks, 13,239 barrels; on spot, 43s. 6d. WOOD.—The feature of the market continues to be acute shortage for spot delivery. The value of Hankow, in barrels, would be about 100s. to 105s. per cwt. for small quantities. The forward market tends easier.



# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## Chemists' Friends Scheme

SIR,—Many manufacturers must have rubbed their hands with glee after reading some of the letters which have appeared in reference to this scheme. Whether they were all written by retail chemists in business, or by those wishing the scheme to fizzle out, I do not know, as it passes my comprehension that a man having the brains necessary for qualification could be as simple as some of those depicted. It does not need a lot of sense to understand that we cannot support the Chemists' Friends and continue purchasing on display terms from firms not on the list; nor to realise that we are not asked to stop selling, but to stop displaying those goods. Let us prove that we are not the spineless nincompoops some think we are. Let us display our own goods and those on the Chemists' Friends List; show these well, and put in a good word wherever possible; do with a will what we are asked to do by the N.P.U. Executive. If we put plenty of enthusiasm into it, we shall find it the most interesting and profitable game we have ever played.—I am, etc.

ONE OF 1,000 (4/12).

SIR,—“Chemists' Friends”—friends indeed! I mean in deed—not word. “Cleft Stick” hits the nail on the head with a decisive bang (*C. & D.*, November 30, p. 661); he, an unregistered man presumably, is doing business with two firms who are Chemists' Friends, and he knows that he does more business with these two firms than any chemist in his town. £800 per annum “div. in partes æquales” is £400 per annum; and, asking a pertinent question, how many chemists spend £400 per annum with any one firm, patents excepted? I wish the Chemists' Friends scheme every success if it is workable; but I am afraid it is not unless the unregistered or drug-store man is included. We all know flourishing drug stores whose proprietors are “unregistered” but by no means unqualified except that they never had the time (or money) to go to Bloomsbury Square. The great army of unregistered, driven into business for themselves, usually by the “parsimonious payments of a parasitic pharmacist,” are, and will continue to be, a power in the land; and any scheme that does not take them into consideration is (in my humble opinion) doomed to failure. I ask all chemists to think this out: is there any town of any importance in this country where there is not at least one unregistered man conducting a flourishing business? I know (or knew) one who had about ten or twelve shops, and a few years ago floated a limited company with a very big capital. Another, although unregistered, has every agency supposed to be given to chemists only. Another—one time chemists' assistant, hospital dispenser, “officer and gentleman”—conducts a very big prescribing and retail business; all the doctors in his town know and respect him, in spite of his lack of qualification (by certificate). Few doctors or chemists could teach him anything about pharmacy, biochemistry, diagnosis and prescribing—people who know tell me his drug accounts run into four figures: such men must be considered in any scheme affecting the craft. Let me state that I have not the slightest personal interest, as I am “out of pharmacy.”

Yours faithfully,

NOBBY'S BROTHER (2/12).

SIR,—It is probable that there may be one indirect consequence of the working of the Chemists' Friends scheme which will bring an advantageous result to the chemist in addition to those expected from the scheme itself—the opportunity and inducement it will bring to show his own lines. One can go from pharmacy to pharmacy and see whole window displays devoted to proprietary lines or branded articles; or in the case of the smaller shops, where the stock is not heavy, the windows are filled with dummies and showcards supplied by the manufacturers. This is a splendid and inexpensive advertisement for the manufacturers, and may bring some sales to the chemist, but the same goods and displays can be seen in all kinds of other traders' windows. If chemists really intend to act on the Chemists' Friends scheme and not give it lip-service only, the gaps left by the omission of the goods of manufacturers who will not support us may be best filled by displays

of drugs and own lines, thus bringing back to the chemist's windows the goods which he is claiming he has qualified to sell. It may be uphill work at the start—there may be some sacrifices to be made in the shape of bonus terms—but I feel sure the return will come if only we can work in unity. It can be done. For my own part, I have never dressed a window for years without using a good portion of it for drugs and lines which are packed on the premises, and it has paid not only in sales but in the solid nucleus of the connection it has brought. The only exception I have made to this rule is during the Christmas weeks, and I have never accepted a single window display for any proprietary.—Faithfully yours,

OPPORTUNE (26/11).

SIR,—I have read with interest the announcement entitled “Chemists' Friends Scheme” in your issue of October 12 and the articles and correspondence thereon in subsequent issues. The scheme, in the circular letter in which it is announced, is described as having “for its object the reservation to the chemist of his legitimate business.” While it may be that the sale of certain classes of articles was originally confined, intentionally or otherwise, to the chemist, yet it is certain that there are many persons other than individual chemists selling those classes of articles to-day—the drug stores, whose trade is so sweepingly referred to by Mr. Mallinson in his address on November 6 as a “menace,” and the big London and provincial stores with their drug departments, to give only two examples. Are these vast organisations, being as they are in a position to do the individual chemist irreparable damage, expected to endorse an action which they must surely regard as an attempt to interfere with what is generally recognised as their legitimate business? Again, is it to be seriously supposed that a large manufacturing concern, whose policy it naturally is to extend its sales in every possible direction, is likely to restrict its sales voluntarily to a limited class of customers in return for nothing more than a promise of “loyal support and every encouragement from chemists”? No, the real facts must be faced. What is now being suggested is not the reservation to the chemist of his legitimate business, but the deprivation of it from those into whose hands (whether for better or worse we are not now concerned) it has fallen; the inevitable result must be that the drug stores and the manufacturers will, instead of joining the scheme, merely be stung into retaliation in the manner envisaged by one of Mr. Mallinson's questioners, and so put the individual chemist in a worse position than that which he now occupies.

PHARMACIST (26/11).

## N.H.I. Dispensing Does Not Pay

SIR,—The figures you print in connection with a year's N.H.I. dispensing for a certain area (*C. & D.*, November 30, p. 646) is proof positive, if proof is still needed, that N.H.I. dispensing does not pay. We tolerate it because there is so much unemployment, especially among proprietors, in pharmacy; and N.H.I. dispensing fills in the gaps of our time. Better half a loaf, we say, than no bread. But, in figures you publish, a year's dispensing fees for a city of over 40,000 inhabitants is given as £970. To earn this sum it was necessary to dispense 161 prescriptions daily, including Sundays and bank holidays, or over 191 a day if we exclude these days. To see whether this means sweated labour or not, let us consider what would happen if all this dispensing were done in one pharmacy—for fees totalling only £970 for a whole year, not a large gross profit for any pharmacy. One qualified assistant (the manager or proprietor) drawing, say, £5 a week and four unqualified at 50s. a week each would form a minimum technical staff; total salaries, £780 a year, leaving less than £200 for rent, rates, lighting, errand boy, cleaning, insurances, interest on capital—and savings. The sum of £200 would not cover this list of expenses anywhere in the country, and the job would be done at a loss. The argument applies equally if based upon the average dispensing fee which I find to be just under 4d. The fact that N.H.I. dispensing takes up the whole of the time of none of us screens but does not remove the uneconomic conditions.—Yours truly,

ONCE BITTEN (3/12).



## Dispensing Notes

### Luminal in Acid Solution

SIR,—Will you kindly describe the correct method of dispensing the following prescription:—

Sodii luminal	...	...	gr. 5½
Caffein. citratis	...	...	gr. 64
Syr. glycerophos. co.	...	...	℥j.
Syr. calcii lactophos.	...	...	℥320.
Aq.	...	...	ad ℥iv.

I am, etc.,

A. C. (8/11).

[Sodium luminal is very soluble in water, luminal itself about 1 in 1,000. Caffein citrate is a weak combination of caffein and citric acid, and is acid in reaction. Syr. glycerophos. co. contains free glycerophosphoric acid, while syr. calc. lactophos. is also very acid. Ten grains of luminal is equivalent to 10.9 grains of the sodium salt. It would be quite permissible to use this, since sodium luminal immediately precipitates the luminal in an acid mixture. Rub down the equivalent part of luminal with mucilage of tragacanth 1 ounce, and mix with the remainder already dissolved in the bottle.]

### An Emulsion and a Suspension

SIR,—I have had difficulty with the following prescription. How should it be dispensed?

Ferri. sulph.	...	...	gr. v.
Adexolin	...	...	℥iv.
Aloin.	...	...	gr. 80
Cupri sulph.	...	...	gr. 120
Manganese dioxid.	...	...	gr. ij.
Aq.	...	...	ad ℥j.

Yours truly,

J. O. S. (12/11).

[Adexolin is an oily solution of vitamins A and D, and must therefore be emulsified before adding to the watery mixture. Manganese dioxide is insoluble in water and must be suspended by the aid of mucilage. Iron and copper sulphates and aloin are all soluble in water. An eight-ounce mixture will contain thirty-two minims of oil and sixteen grains of fine powder. Mucilage of acacia gelatinises solution of ferrous sulphate, so tragacanth must be used as emulsifier. The best method is to mix the oil and the powder with 1½ ounce of mucilage of tragacanth in a mortar, and add to the solution the remaining ingredients, making up to the prescribed quantity. Manganese chloride is more frequently prescribed with copper sulphate to assist absorption of iron by the body. This salt is water soluble.]

### Growth in Mixture

SIR,—Can you enlighten me as to the growth in the following mixture:—

Ammon. brom.,			
Sodii brom.,			
Potass. brom.	...	...	aa. gr. x.
Inf. gent. co. conc.	...	...	℥ss.
Aq.	...	...	ad ℥j.

The mixture, kept concentrated 1-8 in the dispensary, developed no growth, which, however, appeared in the normal-strength mixture in about seven days. I made two test bottles and kept one in ordinary daylight at room temperature and the other in a dark, dampish cupboard, and mould developed in both instances.—Yours, etc.,

E. E. (4/11).

[The air-borne moulds are the most difficult micro-organisms we have to deal with. The spores are everywhere and are not easily killed. When they find a suitable medium for growth they send out long thread-like growths which are only too easily visible to the naked eye. No antiseptics may be used in this mixture, but chloroform water, if prescribed, will inhibit the growth of moulds. Inf. gent. co. conc., B.P., is made by extracting gentian root, orange and lemon peels with 25 per cent. alcohol. The preparation contains sufficient alcohol to keep it, but when diluted with seven times its volume of water its alcohol content is negligible. Among certain dispensing chemists some few years ago the method of making infusions

was to wash out some 8-oz. bottles with boiled water, fill them with freshly made infusion, cork them securely, and put them aside for the day's use. These freshly prepared, practically sterile preparations kept well unopened. We think that a friendly suggestion to the doctor to prescribe chloroform water instead of "aq." would save you further trouble.]

### An Unaccountable Precipitate

SIR,—The following prescription, compounded some years ago with apparent satisfaction, has at a recent repetition elicited a complaint that it disagreed with the patient. When returned, it had a heavy, dark green precipitate. Can you explain?

Tr. chlorof. et morph. co. (1914)	...	℥j.
Glycerini acid. carbol.	...	℥j.
Liq. bismuthi et ammon. cit.	...	℥vj.
Aq. chlorof.	...	ad ℥viii.

Yours, etc.,

P. L. (7/9).

[Tinct. chlorof. et morph. co., 1914, and the preparation of the same name in the B.P.C., 1934, are identical. Is it possible that tinct. chlorof. et morph., B.P., 1932, has been used in error, as there is now no B.P. "compound" tincture? The "co." contains tinct. cannabis indicæ and glycerin., while the tinct. chlorof. et morph. in the old "chlorodyne" contains ext. glycyrrhizæ liq. 2½ ounces and treacle 2½ ounces in a pint of finished product. We cannot see what change can take place in either the tinct. chlorof. et morph. co. or the finished mixture. Liq. bismuthi added separately to either glyc. acid. carbol. or tinct. chlorof. et morph. co. gives no sign of change.]

### A Case of Chemical Reaction

SIR,—After once producing a good cream to the following prescription I have had difficulty on each subsequent occasion. The method followed was to make an emulsion of the olive oil and lime water, and use this to rub down the previously mixed powders. Rapid separation occurred, even after passing through an emulsifier:—

Acid. salicylic.	...	...	gr. xx.
Calamin.,	...	...	
Zinci oxid.	...	...	aa. ℥iss.
Ol. olivæ...	...	...	℥j.
Aq. calcis	...	...	ad ℥ij.

Yours, etc.,

J. O. H. (13/11).

[Acid salicylic is chemically incompatible with calamine, zinc oxide and lime water. It would be advisable to mix the three powders, salicylic acid, calamine and zinc oxide, with 2 drachms of lime water in a mortar, and allow to stand overnight to react. Then proceed to mix in the olive oil, and, lastly, the lime water. Do not rub the finished preparation more than is necessary to obtain a good cream. Bottle, and add the usual directions to "Shake the bottle."]

### Avoiding a Precipitate

SIR,—Will you kindly instruct me how to make a satisfactory mixture of mist. sod. sal. N.F., with hard (tap) water (clear mixture preferred)?—Yours faithfully,

R. (31/10).

[Sodium salicylate can be dissolved in tap water and the solution be perfectly satisfactory. It discolours and becomes dark, as all solutions of sod. salicyl. do under certain conditions, but there is no precipitate. The trouble here is the action of sodii bicarb. on hard water. The large quantity of lime in water ("temporary hardness") precipitable by boiling off the carbon dioxide is kept in solution by the CO<sub>2</sub> present. Addition of sodii bicarb. disturbs this equilibrium and calcium carbonate is precipitated. The only way to make this N.F. mixture with hard tap water is to make a stock solution of sodium bicarbonate containing 1 grain in 12 minims, allow to stand for two days and decant.]



## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*J. F. (25/11).*—INSECT PEST.—The insect is a very small larva of a tiny beetle belonging to the genus *Anthrenus*, sometimes known as woolly bears. These feed on much the same substances as clothes moths: woollens, feathers, hair, fur, and silk are perhaps the commonest, except, of course, in museums, where birds' and mammals' skins and dried insect collections are attacked. In houses in this country drying cupboards are perhaps the commonest places where the insect may be found, due mainly to the equable temperature. Frequent applications of any of the common household sprays will be necessary, but if any of the pipes in the cupboard are lagged with felt, such lagging should be removed and destroyed. If the heating of the cupboard is done by means of a hot-water tank, reliance will probably have to be placed on the spray, but if the flooring can be got at easily the accumulation of fluff should be removed.

*R. F. F. (8/11).*—QUININE AND PHOSPHORUS DROPS.—The following formula which was registered in the *C. & D. Diary*, 1930, will meet your requirements for quinine and phosphorus drops:—

Cinchonin. sulph.	...	...	0.028
Cinchonidin. sulph.	...	...	0.028
Quinidin. sulph.	...	...	0.028
Ac. phosphor. conc.	...	...	8.281
Quinin. sulph.	...	...	0.455
Ac. glycerophosph.	...	...	0.056
Spt. rectific.	...	...	6.0
Sacchar. ust.	...	...	0.225
Aq. dest.	...	...	84.899

*M. B. (25/11).*—STIFFENING TURKLE OIL CREAMS.—It would be preferable to use essential oils for the perfume rather than synthetics, since the latter are liable to alter the melting points of fats. As hardening agents we suggest you experiment with either beeswax 3 per cent., spermaceti 5 per cent., wool wax 8 to 10 per cent., or palm stearate 5 per cent. In combination wool wax tends to lower the melting point of other waxes.

*E. H. N. (11/11).*—INTERNATIONAL PHARMACOPŒIA, 1885.—We have no other copy of the proposed International Pharmacopœia of 1885 than the one contained in our office volume of *THE CHEMIST AND DRUGGIST* for that year. The projected pharmacopœia was published in 1886 by G. Speirani e Figli of Turin (pp. 124, 12°), with a long Latin title beginning "Projectum Pharmacopœie Internationalis," and we notice that there is a copy of this publication, catalogued under "Waldheim, A. de," in the library of the Surgeon-General of the United States Army. It is not unlikely, too, that the "Compte Rendu" of the Brussels International Pharmaceutical Congress of 1885, compiled by E. Van de Vyvere and published in Brussels in 1886, includes a transcript of the same work, though we have not a copy of this report.

*P. & H. (15/11).*—PRESCRIPTION CHARGE.—According to the *C. & D.* costing system, the charge for the prescription should be 2s. 2d. This is arrived at in the following manner:—

Ferri et ammon. cit.	...	gr. xv.	5iv.	d.
Sod. sulphat.	...	gr. x.	5ij. Fij.	3
Acid. nit.-hyd. dil.	...	℥v.	℥80	1
Syr. aurantii	...	5ss.	3j.	5
Aq. chlorof.	...	ad 5ss.	3viij.	6
Container	...	...	...	2
Oncost	...	...	...	8

2s. 2d.

*J. H. S. (26/11).*—DYEING SATIN SHOES.—There is some risk in recommending preparations for dyeing satin shoes since quite a lot of shoe stains will not yield to treatment. The following are the simplest methods of dyeing:—The first is to spray dyes soluble in methylated spirit on to the shoes, but the drawback to this is the difficulty of obtaining dark shades without bronzing. Where a mouth spray is used there is a danger of spots of moisture developing on the shoes. The better process is to dye in hot water with the addition of a little ammonia. For browns and navys it is best to use direct dyes, but for all other shades level dyeing acid colours can be used.

When the dye bath has been made to the required strength, the shoes are given a coat. This should be applied with a sponge or, better still, with a 1-in. flat brush. The shoes should be dried as quickly as possible, and, if not to shade, given further coats; but be sure that the shoe is dry before each application. The bath is best kept at the boil.

*J. L. (26/11).*—CLEANING MERCURY.—The usual method of cleaning mercury is to squeeze it through chamois leather. If this is not successful in removing the dirt, mix the mercury with dilute nitric acid, wash, and then squeeze again through the chamois leather.

*H. R. (29/11).*—PREGNANCY DIAGNOSIS BY URINE ANALYSIS.—The two chief tests employed are the Asheim-Zondek and the Friedman. Tests of this nature are carried out at the Edinburgh Pregnancy Diagnosis Station, Institute of Animal Genetics, University of Edinburgh. We understand that a reply can be obtained within three days followed by a report in about fourteen days at a slight extra charge above the usual rate. The Friedman test depends on the fact that in rabbits the urine of human pregnancy produces corpora hæmorrhagica within twenty-four hours owing to presence of Prolan B. The active principle in the urine remains potent for at least six days, and a positive reaction is obtained as early as twenty-one days after conception.

*B. & C. (29/11).*—SORE TEATS IN COW.—The teats after milking should be steeped in a 25 per cent. warm aqueous solution of glyc. ac. boric, using a jam jar or cup. Then dry carefully with a clean cloth or a pledget of cotton wool and rub in the following ointment:—

Pulv. ac. boric	...	...	3j.
Ext. hamamel. liq.	...	...	3j.
Adeps lane	...	...	3ij.
Paraf. moll.	...	...	3v.

If necessary a teat syphon may have to be used. The milker should milk the affected cow last and carefully scrub his hands afterwards.

*L. E. P. (28/10).*—PERMANENT WAVING SOLUTION.—The sample of permanent waving solution submitted appears to consist only of sodium sulphite, 10 per cent. of the crystals, Na<sub>2</sub>SO<sub>3</sub>·7H<sub>2</sub>O, and a very little gum dissolved in water. This solution is stated to be quick "in cooking," the average time being seven to eight minutes, and to be particularly suitable for white hair, as it leaves no stains.

## Retrospect of Fifty Years Ago

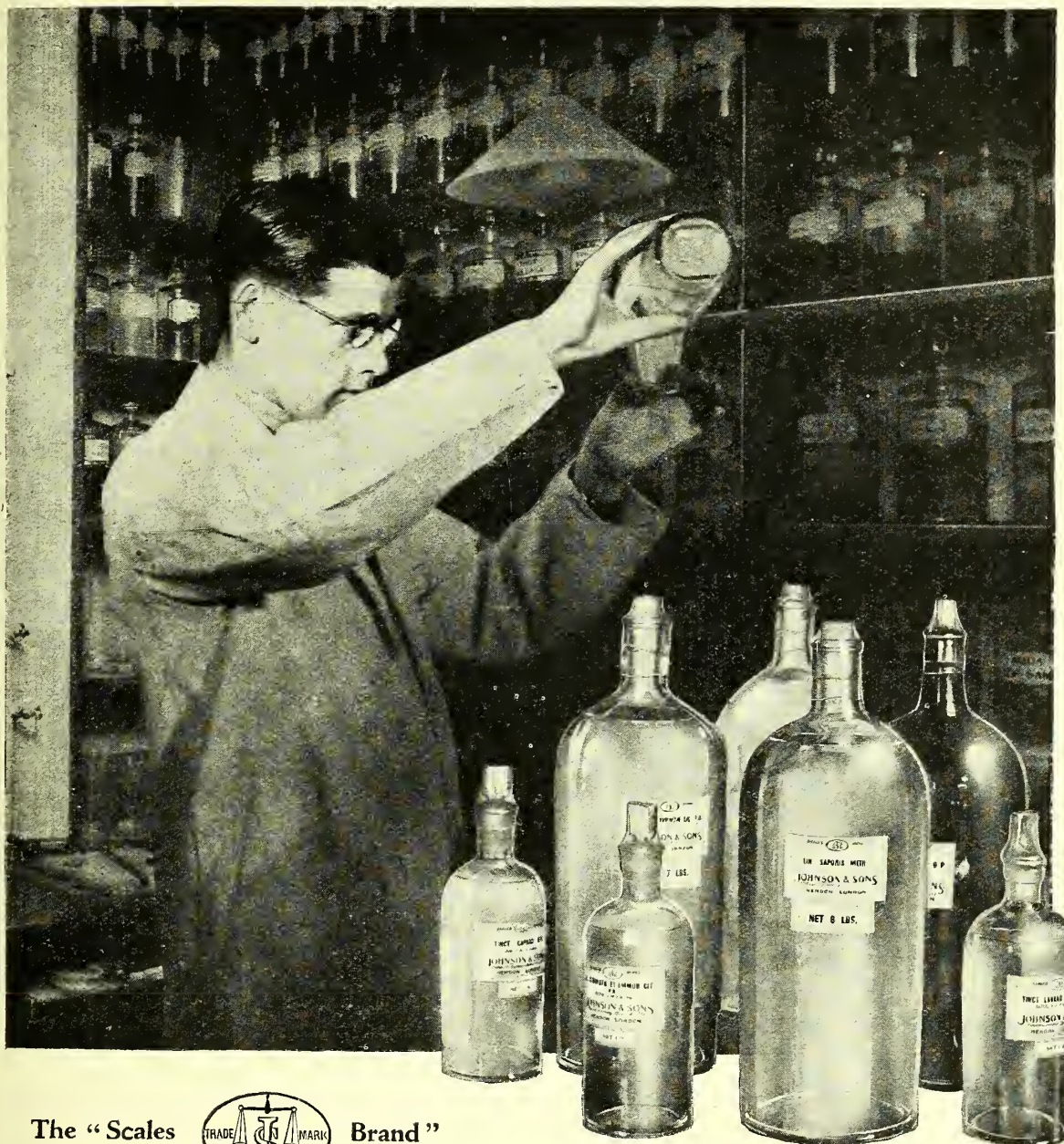
Reprinted from  
"The Chemist and Druggist," December 15, 1885

### Research Laboratory Proposed

It appeared from the speeches of the president [of the Pharmaceutical Society at the Council meeting on December 2] that some adjoining premises could be obtained very shortly, and it was in view of leasing these that the Committee had made their report. The Committee had not decided that the establishment of a laboratory was the sole way of promoting research, but they thought it was better to begin in their own house. It was universally agreed, however, that the laboratory would be open to any advanced student connected with the Society, from whatever school he might come. The president mentioned as likely subjects of research inquiries into the natural history and chemistry of drugs, as, for instance, aconite or belladonna; investigation into the chemistry of new drugs; verification of the formulas of the British and other Pharmacopœias. Students would work in such a laboratory without remuneration. . . . Mr. Greenish, the vice-president, Mr. Bottle, Mr. Hills, Mr. Butt and others supported the proposal, but it was ultimately agreed to receive the report only, and to request the Committee to consider the subject further.



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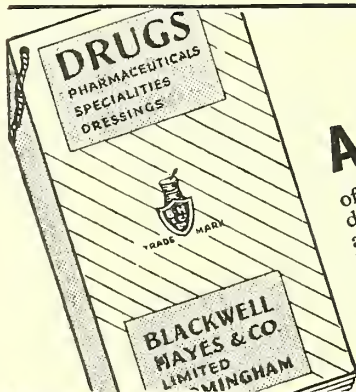


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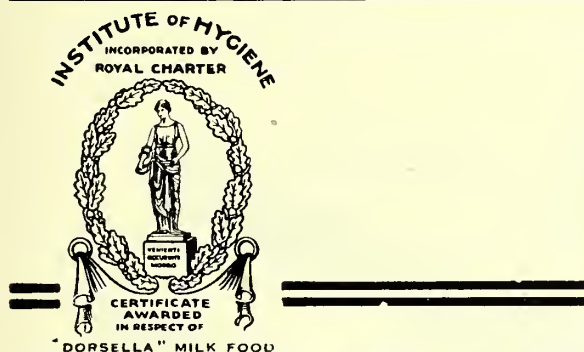
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This Supplement is inserted in every copy of The Chemist & Druggist

DECEMBER 7, 1935

28 ESSEX STREET, LONDON, W.C.2

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**T**HE Proprietor of British Patent No. 258,704, dated July 18, 1925, relating to "Improvement in a Process for Making Pills having an Oily Material as one of the Ingredients," is desirous of entering into arrangements by way of a licence or otherwise on reasonable terms for the purpose of exploiting the above patent and ensuring its practical working in Great Britain. Inquiries to B. Singer, Steger Building, Chicago, Illinois.

## APPRENTICES.

**A** VACANCY occurs for an Apprentice (either sex) in high-class West End Pharmacy; excellent prospects. 86/25, Office of this Paper.

**U**NIVERSITY PHARMACY.—Apprentice required in the New Year; educational facilities. Thomas, 34 Trinity Street, Cambridge.

## SITUATIONS OPEN.

### RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**C**ARDIFF.—Qualified Assistant, lady or gent., required early; part or whole time can be arranged. 87/3, Office of this Paper.

**H**ASTINGS.—Wanted December 30th, Qualified Man (24-28); keen Salesman and good Window-dresser essential; also knowledge of Photography; permanency; please give full particulars in first letter. 86/33, Office of this Paper.

**L**ONDON, N.—Qualified Locum from December 16th to 24th, inclusive, chiefly for Dispensing and assist at Counter. References, age and salary required to Pirie, Chemist, 4 Grand Parade, Harringay, N.4.

**S**OUTH MANCHESTER.—Qualified Chemist-Optician; N.H.I. and Cash Retail; state age, wage and experience; partnership contemplated. 85/8, Office of this Paper.

**W**EST RIDING, YORKS.—Junior Unqualified (or Hall) Dispenser, with good training and Dispensing experience, required urgently in Private Chemist's Business, where other Assistants are kept; one who is good at figures and can assist with Book-keeping and Typing preferred. 86/26, Office of this Paper.

**W**OLVERHAMPTON.—A Qualified Manager required for small branch; apply by letter only, stating age, experience and salary required; applications not answered in 7 days respectfully declined. J. Foster Taylor, Chemist, Showell Circus, Wolverhampton.

**A**SSISTANT, male (about 23), Unqualified; reply, giving full particulars, photo, salary required; no reply to application within three days respectfully declined. W. J. Weatherhead, 485 King's Road, Chelsea, S.W.10.

### PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

**A**SSISTANT, Unqualified, male, young, for good-class Family and Dispensing Business, London, N.W.1; comfortable permanency and good prospects for right man; interview essential; state experience, age and salary required, or 'phone Battersea 3501 for appointment. 86/43, Office of this Paper.

**F**OR Norfolk, at once, elderly Chemist as Superintendent, part-time; easy hours, light duties; £2 10s. to commence; healthy position. 85/6, Office of this Paper.

**J**UNIOR Assistant, Unqualified, wanted at once for branch shop, Kettering. State age, experience, salary, when disengaged and references to Philadelphus Jeyes & Co., Ltd., Chemists, Northampton.

**J**UNIOR or Improver required for December 30; a man having served apprenticeship in good-class Dispensing business preferred; state experience and salary required (no stamped envelopes). H. Reynolds, 9 Becket Buildings, Worthing.

**M.P.S.**, LADY; London. State minimum salary and usual particulars to Chemist, 333 Battersea Park Road, S.W.11.

**Q**UALIFIED Assistant; capable of taking charge of small branch; must be single, elderly man not objected to if active; good Counterman and Window-dresser. Write, stating age, experience and salary required, to Chemist, 10 Burford Road, Bickley, Kent.

**Q**UALIFIED Assistant wanted at once, either sex, for S.E. Essex; Counter experience essential; progressive post and permanency to suitable applicant. Write, stating full particulars and salary required, to 86/24, Office of this Paper.

**Q**UALIFIED Lady wanted, January 1, for Monmouthshire village business; comfortable permanency; good Counterman essential; state age, height, salary, experience and enclose snap first letter. 85/3, Office of this Paper.

**Q**UALIFIED Male required (not over 35) to open new branch. Apply by letter, giving full particulars of age, experience, qualifications and salary required, to Secretary, Dewsbury Pioneers' Industrial Society, Ltd., Dewsbury, not later than first post December 18.

**Q**UALIFIED; part time; 5.30 or 6 p.m. till 8; London, S.E.; Light Counter and N.H.I. Age, wages, etc., to P.C.B. 185/150, Office of this Paper.

**Q**UALIFIED, young (male), required December 30; must be good Salesman, used to Photographic and quick N.H.I., competent Dispenser; moderate salary; live out; comfortable berth. Apply, stating full particulars and references, to W. E. Massey, 37 Station Road, Portslade, Sussex.

**R**EQUIRED immediately after Christmas, Junior Male Assistant for Wiltshire business; give full particulars and salary required in first letter. 271/791, Office of this Paper.

**R**EQUIRED immediately, until Christmas, Part II Student or reliable Junior. Apply G. B. Osborne, Wholesale and Retail Chemist, 118 Broad Street, Reading.

**U**NQUALIFIED Junior, young, male, wanted for few weeks. Apply, giving full particulars, to H. C. Neve, 1416 London Road, Norbury, London, S.W.16.

**U**NQUALIFIED Male Assistant (under 30) required; good references essential; permanency if satisfactory; S.W. district; state full particulars, experience, etc. 86/18, Office of this Paper.

**W**ANTED.—A Qualified Chemist and experienced Optician (registered J.C.Q.O.) as Assistant in a good-class Dispensing and Retail Business, with Optics and Photographics; must be a good Salesman, courteous in manner and thoroughly competent and trustworthy; preference given to one who desires a permanent and progressive appointment. Kindly state full particulars of former experience, age, height, married or single, salary required, and enclose recent photograph (returnable) to "Progress," 86/10, Office of this Paper.

**Y**OU can safely leave your business for short periods during 1936 if you know the C. & D. and THE CHEMIST AND DRUGGIST DIARY AND YEAR-BOOK are handy for reference. Order your copy now and, if you are not already a subscriber, twenty shillings will secure a copy of the 1936 edition and the C. & D. every week for 12 months. Remittance may follow later.



**YOUNG** Lady Assistant required immediately for new branch near Ilford; must be a reliable Dispenser, capable and having an attractive Counter manner; applicants should state salary required. Apply Bowerman, Cash Chemists, Ltd., 106 Longbridge Road, Dagenham.

**YOUNG** Lady for high-class Pharmacy; must have good Toilet and Surgical experience, and be capable Window-dresser; write in first instance, stating age, height, salary, previous experience; applications not answered within seven days respectfully declined. 41 Revell Road, Kingston.

**YOUNG** Unqualified Assistant required at once; either sex; quick Dispenser and Counterhand. State age, salary required, with full particulars, to 86/44, Office of this Paper.

### WHOLESALE.

**A** REPRESENTATIVE to call on the Chemist trade is required by a world-famous house; the applicant must be forceful and energetic and must have some previous experience in this line of business; excellent prospects for the right man. Write, stating qualifications, education, age, height and weight, to 271/786, Office of this Paper.

**A** SSISTANT Sales Manager wanted for Chemical business with national distribution of advertised proprietary products and extensive sales organisation; only men with actual experience of controlling staff selling to Chemists, Grocers and allied traders should apply (age 30 to 40); preferential consideration to men with public school or university training if with previous experience indicated; the executive will be required to join superannuation scheme and to associate himself with the welfare activities of the company. Form of questionnaire, on which experience can be stated in the manner required, sent on application to the General Manager of the Chemical Works, Newton, Chambers & Co., Ltd., Thorncliffe, nr. Sheffield.

**K** EEN, able Salesmen, on commission basis, handle well-known advertised Toilet Product; must be already selling other goods; areas open, London, Southern Counties, Wales, Midlands; fullest details area covered, lines handled. 85/11, Office of this Paper.

**M** ANUFACTURERS of Toiletries developing the better-class market invite applications from Representatives with proved Chemist and Store connections, (a) as additional Agencies, (b) on salary, commission and expenses, on the following territories—(1) Lancashire; (2) Notts, Derby, Lincs, Ches.; (3) Hereford and South Wales; (4) Surrey, Kent, Sussex; (5) Devon, Cornwall, Somerset, Dorset; fullest particulars essential. 271/785, Office of this Paper.

**P** HARMACIST (under 30) required by London Wholesale House; must have had good Retail experience, some knowledge Poison Regulations, possess initiative and energy. Reply, with full particulars of experience and salary required, to 271/787, Office of this Paper.

**R** EPRESENTATIVE wanted by old-established Druggists' Sundries house for Midlands and West of England; must have sound connection amongst Chemists and Hairdressers; good prospects for an energetic Salesman; one with own car preferred; salary, expenses and commission. Apply, giving full particulars age and sales record, to 271/784, Office of this Paper.

**S** TERLING PRODUCTS CO., of Copse Road Mills, Fleetwood, require keen Salesmen who can greatly add to their income by including on journey the few scattered Corn Merchants on their existing territory; sole selling rights for good, repeatable tonnage line.

**T** RAVELLERS for Midland Counties, South and West of England, with sound connection amongst Wholesale Chemists' Sundriesmen, to carry sideline showing good Wholesale and Retail profit; good commission; give references. The S.O.S. Grip Co., 146 Higham Road, Rushden, Northants.

**W** ANTED.—A Pharmaceutical Works Chemist, previous experience in a similar capacity essential, preferably with Pharmaceutical qualifications, for the preparation of Medical Products, including Sterile Solutions. Write Box X. 868, Willings, 135 Moorgate, E.C.2.

**W** ANTED on commission terms only, Representatives in the following areas: Derby, Leicester, Notts, Rutland, Warwick, Northants, Staffs, Worcester, Salop, Hereford, Monmouth; to carry Nationally-advertised Product and a number of other lines, including Beauty Culture. Apply by letter only, stating full details, lines carried and the area usually canvassed, 271/789, Office of this Paper.

## SITUATIONS WANTED.

### RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A.A.A.**—QUALIFIED (23); 7 years' varied experience of all branches, quick and efficient, "fully recommended" by references, seeks position; London or South; disengaged now. 86/29, Office of this Paper.

**A** CAPABLE Qualified Chemist wants position in West Riding; Manager or Assistant; 7 years' all-round experience; keen Salesman and Buyer. 86/50, Office of this Paper.

**A** QUALIFIED Assistant or Manager (29), single, with many years of General and Agricultural Retail experience, desires post; disengaged. F. G. Tolman, "Cranmere," Taunton Road, North Petherton, near Bridgwater, Somerset. Telephone and telegrams: Tolman, North Petherton 47.

**A** QUALIFIED Assistant or Manager (56); tall, energetic, trustworthy; permanent or locum; highest references. Howard, 4 Bamborough Gardens, Shepherd's Bush, W.12.

**A** QUALIFIED Chemist desires re-engagement; experienced Manager; energetic, capable; or locum. Radford, 6 Westleigh Park, Bristol, 4.

**A** QUALIFIED Scot (25), tall, 10 years' good experience (London and country), Dispensing, Counter, Window-dressing, as Manager or Assistant; disengaged. Chemist, 3 Glazbury Road, Barons Court, W.14.

**A** SSISTANT, Unqualified; experienced Dispensing, Counter; part-time, locum, permanency; London only; disengaged. Write "C. G.," 2A Yalding Road, Bermondsey, S.E.16.

**A** SSISTANT, Unqualified; thoroughly experienced Dispensing and Counter; locum; permanency; disengaged. Hamm, 10 Disraeli Road, Putney, S.W.15.

**A** SSISTANT (22), tall, requires part-time post; thoroughly competent Dispenser, efficient Counterman; disengaged December; Chemist or Doctor; London. 86/55, Office of this Paper.

**A** SSISTANT (21), Unqualified, desires permanent situation; good address; 5 years' experience Counter, Window-dressing, Dispensing, Photo; disengaged fortnight's notice; sound references; interview appreciated; South Coast or London preferred. 85/14, Office of this Paper.

**C** APABLE Lady Assistant (over 30 years) requires post after Christmas; all-round experience; good Counter personality; sound reference; salary £2 15s. 85/12, Office of this Paper.

**C** HEMIST, experienced, Prescriber, disengaged, desires Management, London or provinces; liberal salary. "Drug," 46 Buckley Road, London, N.W.6.

**C** HEMIST, retired four years, desires berth with small remuneration; active; good Dispenser and Window-dresser; small capital. Phensic, Railway Hotel, Bishops Stortford.

**E** XPERIENCED, trustworthy, Qualified Manager, locum, relief; well recommended; Dispenser; moderate terms; disengaged. Harris, 71 Shaftesbury Road, W.6.

**H** OWEVER you may be situated now, we venture to prophesy that many situations will arise during 1936 when you will want *The Chemist and Druggist* and *THE CHEMIST AND DRUGGIST DIARY AND YEAR-BOOK*. If you are not already a subscriber send your order to-day. Twenty shillings will secure *THE DIARY* for 1936 and the *C. & D.* every week for a year. Remittance later.

**L** ADY Dispenser-Bookkeeper (30), Hall and First-Aid certificates, experience with Chemists, Doctors and Institution, requires post immediately. Miss Thompson, 197 Station Road, Harrow. Telephone: Harrow 2104.

**L** ADY Dispenser seeks post, Doctor, Chemist, Stores; Nursing experience; Hall qualification; in or near Blackpool. 11A Brentwood Avenue, Anchorsholme, Blackpool.



**L**ADY Dispenser (31) (Hall) desires part-time post; Hospital experience; London or North London preferred. 72/1, Office of this Paper.

**L**ADY, M.P.S., requires permanency or locum work, Manageress or Assistant; short hours; good general experience. Pharmacist, 5 Randolph Gardens, N.W.6.

**L**ADY (35), fully experienced Counter and Dispensing, wants post, evenings or full time, London; present employer (7 years) highly recommends. P.C.B. 185/15, Office of this Paper.

**L**OCUM or Relief; experienced, competent, reliable; excellent references; reasonable terms; town or country. Chemist, 56 Rudloe Road, Balham, S.W.12.

**L**OCUM Tenens.—Chemist-Optician, disposed own businesses; exceptionally experienced; reliable; strict probity; management view succession; any help (45); exceptional credentials; moderate remuneration. "Erower," 11 Canbria Avenue, Ellesmere, Salop.

**M.P.S.**, F.S.M.C., excellent experience and references, desires post London or South Coast (age 29); height 5 ft. 10 in. Laing, 40 Woodberry Way, Finchley, N.12. 'Phone: Hillside 1492.

**M.P.S.** (38) desires post as Manager or Senior; excellent Counter, Dispensing, Photographic experience; capable all duties; free January 1; well recommended; South Coast or London. "Pharmacist," Bridger's, Chemists, Peacehaven.

**M.P.S.** (26; 6 ft.) desires position as Manager, Assistant or Locum; disengaged; wide experience in all branches; excellent references. Bowles, 7 Worston Road, Highbridge, Somerset.

**M.P.S.** (29); London or near preferred; nearly 5 years in Managerial position; Scholl's Practisedist; disengaged. 86/1, Office of this Paper.

**P.H.C.** (35) open for evening and/or week-end engagement; excellent Counterman; start immediately. "S. W.," 42 Nottingham Road, Leyton, E.10.

**Q**UALIFIED Manager desires permanency or locum shortly, where good services appreciated; increased turnover under fair conditions; 20 years' managerial experience, London, Provincial; undeniable references. "M.P.S.," 36 High Street, Ruislip, Middlesex.

**Q**UALIFIED Manager; locum; Superintendent; capable; well experienced all branches. J. L. Davies, M.P.S., 164 Clapham Road, S.W.9. Reliance 2741.

**Q**UALIFIED wants position as Manager or Superintendent in London district; elderly but active; abstainer; short hours; salary £2 10s. per week. Apply "S.," 98 Greyhound Lane, Streatham Common, S.W.16.

**Q**UALIFIED (24), tall, desires position as Manager or Senior Assistant; 6 years' high-class experience all branches; free after 14th inst. 85/10, Office of this Paper.

**S**COT (21), Unqualified; experienced Counter, Dispensing, Display; disengaged; go anywhere, London preferred. 82/1, Office of this Paper.

**T**HOROUGHLY reliable Qualified Man requires position of trust, preferably management; excellent Prescriber and Counterman and used to all matters Photographic; 12 years' experience in London and Provinces; age 30, and of good appearance and education; would welcome permanency; South-West London preferred; available at a week's notice. 86/51, Office of this Paper.

#### NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

**U**NQUALIFIED, tall, single, abstainer; Dispensing, Counter, Photographics. Harris, 27 Lysways Street, Walsall.

**Y**OUNG Pharmacist, disengaged, requires situation as Assistant or Manager; all-round experience; London or suburbs preferred. 85/4, Office of this Paper.

**Y**OUNG Swiss Pharmacist, Unqualified, wishes to gain experience in English Pharmacy; preferably London; speaks English, French and German; willing to work in any capacity. Giezen-danner, 35 Basildene Road, Hounslow West.

#### WHOLESALE.

**A** YOUNG Man (26 years of age) seeks progressive situation; 12 years' experience Wholesale trade as Checker, Dispatch Clerk, Stockroom Supervisor, Stockkeeper. E. H. W., 185 North Circular Road, Palmers Green, N.13.

**A**DVERTISER (34) desires position in Wholesale House, South or Midlands, as Checker or Stock-keeper; 18 years' experience; hard worker; good timekeeper; highest references. 86/8, Office of this Paper.

**A**N Experienced Representative (28), Qualified Pharmacist, with excellent connection amongst Physicians, Pharmacists, Hospitals, London and Midlands, requires progressive position; Medical Propaganda and/or trade work; own car. 86/6, Office of this Paper.

**E**XPERIENCED (Lady) Tablet Coater and Polisher requires situation in London; permanency. D. H., 9 Charleston Street, Walworth, S.E.17.

**I**F YOU are a Principal who feels the necessity to "slack off" a little, why not let me help you?—Age 34; excellent business experience Packed Goods, Food Products, Patents, Manufacturing and Wholesale trade; General Organisation and Management, Costs, Buying, Correspondence, etc.; salary from 90s.; genuine enquiries to 86/23, Office of this Paper.

**M**AINTENANCE Engineer requires change; Tablet Machines a speciality; able to take complete charge. 79/15, Office of this Paper.

**R**EPRESENTATIVE, London, desires position with house of repute; first-class references and connection; Drug or Toilet. 24 Lovelace Avenue, Southborough Park, Bromley.

**T**RAVELLER (38), married, own car, 18 years' experience Toilet-travels and Medicinal Packed Lines, sound Retail Chemists' connection London and district (11 years), desires engagement with known firm, January. 86/17, Office of this Paper.

**W**ORKS Chemist-Manager; experienced Buying, Packing, Manufacturing, Cosmetics, Pharmaceutical Products; originator of new lines; specialities Shaving Cream, Tooth Pastes, Brillantines; good Organiser; modern methods for production of competitive goods. 86/3, Office of this Paper.

#### FOR SALE.

(Articles to the value of £5-£50.)

**C**ASH Register; "National"; as new; prints and adds sales; must sell. Write R. Bruce, 44 Burns Road, N.W.10.

#### MISCELLANEOUS.

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**C**HEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate Glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shop Fitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.



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99—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

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## WANTED.

CASH Register; "National" or Remington preferred; pay reasonable cash price. 271/783, Office of this Paper.

TINCTURE Press, capacity about 2 gallons. De la Rue, States Arcade, Guernsey, C.I.

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All users of the C. & D. Retail Dispensing Price List require a copy of this Formulary. It brings together the formulas for unofficial preparations, the prices of which are quoted in the Price List. It is a choice collection of good formulas for articles in everyday request by the public. Price 2s. 6d. post free.

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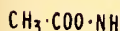
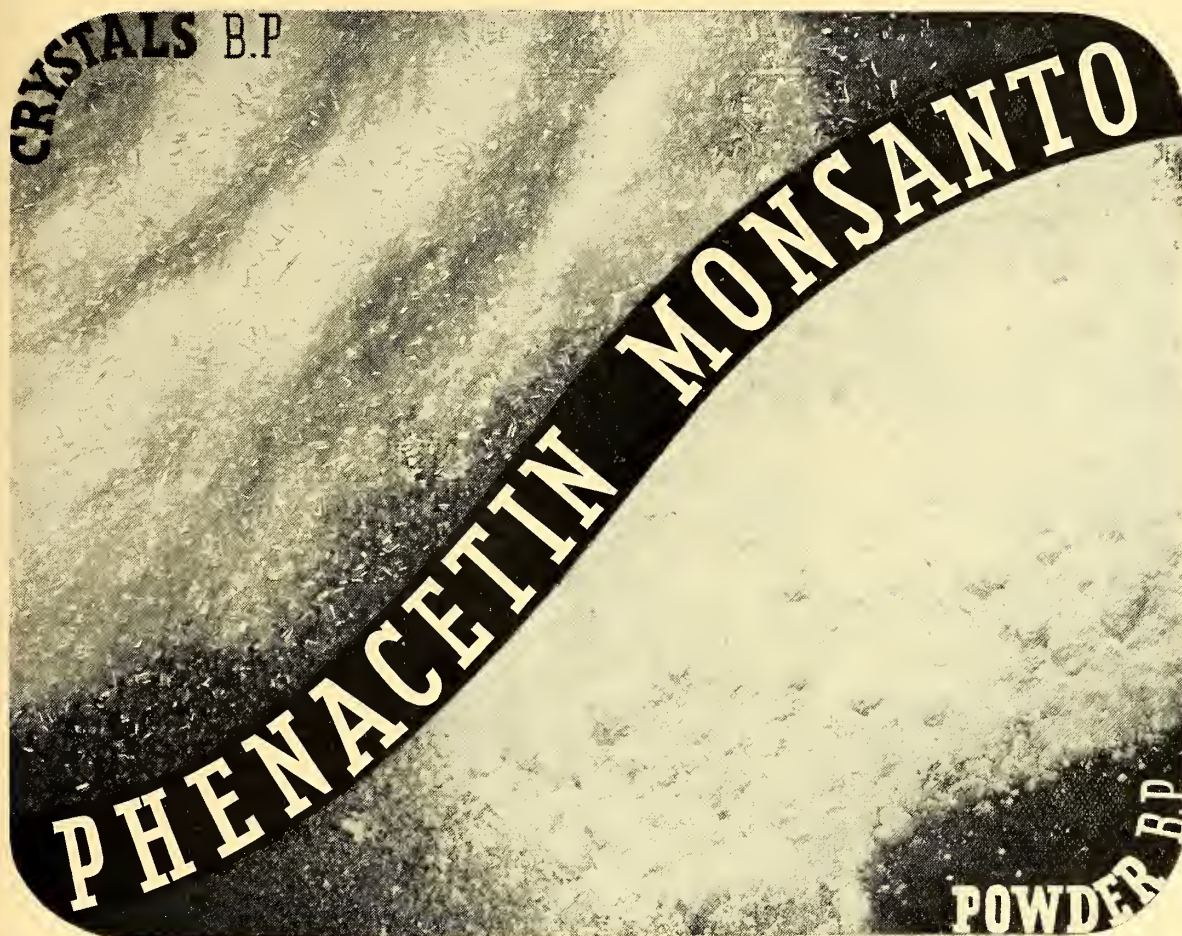
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